

ALTERNATIVE REMEDIAL CONTRACTS STRATEGY

REGIONS VI, VII & VIII



REMEDIAL PLANNING ACTIVITIES

AT

SELECTED UNCONTROLLED HAZARDOUS

SUBSTANCE DISPOSAL SITES

U.S. EPA CONTRACT NO. 68-W8-0122

IN ASSOCIATION WITH,
TERRACON CONSULTANTS EC, INC.
McCLELLAND ENGINEERS, INC.



*1/2 *1

U.S. ENVIRONMENTAL PROTECTION AGENCY ALTERNATIVE REMEDIAL CONTRACTING STRATEGY REGION VI, VII, VIII

ENVIRONMENTAL PRIORITIES INITIATIVE PRELIMINARY ASSESSMENT VOLUME I

SILVANUS PRODUCTS, INC.
40 MERCHANT STREET
STE. GENEVIEVE, MISSOURI
EPA ID NO. MOD092351642
TECHNICAL SUPPORT ACTIVITIES
FY '93

U.S. EPA CONTRACT NO. 68-W8-0122 U.S. EPA WORK ASSIGNMENT NO. 47-7JZZ U.S. EPA REGION VII

JACOBS ENGINEERING GROUP INC. 10901 W. 84TH TERRACE, SUITE 210 LENEXA, KANSAS 66214 JACOBS PROJECT NO. 12-D247-19

TERRACON ENVIRONMENTAL, INC. 7810 NW 100TH STREET KANSAS CITY, MISSOURI 64190-1541

SEPTEMBER 1993

TABLE OF CONTENTS

SEC ₁	<u>PAGE</u>			
EXE	CUTIVE	SUMMARY	ES-1	
1.0	INTR	INTRODUCTION		
	1.1	Objective	1 1	
	1.2	Scope of Work	1	
2.0	SITE	SITE DESCRIPTION		
	2.1	2.1 Site Location		
	2.2	Site Features	2	
	2.3	Ownership History	2	
	2.4	Nature of Operations	3	
		2.4.1 Printing Process	3	
		2.4.2 Silk-Screen Process	4	
		2.4.3 Ancillary Processes	5	
	2.5	Permit and Regulatory History	5	
3.0	ENVI	6		
	3.1	3.1 Water Supply		
	3.2	Surface Waters	7	
	3.3	Area Soil, Geology, and Hydrology	7	
	3.4	Area Climatology	9	
	3.5	Critical Habitats/Endangered Species	10	
4.0	VISU	VISUAL SITE INSPECTION		
	4.1	Visual Site Inspection Participants	11	
	4.2	Solid Waste Management Units and Areas of Concern	11	
REF	ERENCE	es	12	
		LIST OF TABLES		
	. 1	Minary Water Will Date		
Table	-	Missouri Water Well Database		
Table		SWMU/AOC Identification Support		
Table	e 3	SWMU/AOC Identification Summary		
		LIST OF FIGURES		
Figu		Project Location and Vicinity		
Figu		Four-Mile Radius and Vicinity		
Figu		Site Plan		
Figui	re 4	Location of Municipal Water Supply Wells		



JACOBS ENGINEERING GROUP INC.

10901 WEST 84th TERRACE, SUITE 210, LENEXA, KANSAS 66214 TELEPHONE (913) 492-9218 • FAX (913) 492-6198

September 29, 1993

Mr. Gene Williams Missouri Department of Natural Resources Division of Environmental Quality 205 East Jefferson Street Jefferson City, Missouri 65102

Re:

EPA Contract No. 68-W8-0122
Environmental Priorities Initiative
Preliminary Assessment Report for
Silvanus Products, Inc.
Ste. Genevieve, Missouri
EPA Work Assignment No. 47-7JZZ
Jacobs Project No. 12-D247-19

Dear Mr. Williams:

Enclosed are two copies of the Final Environmental Priorities Initiative/Preliminary Assessment Report for the Silvanus Products, Inc. facility in Ste. Genevieve, Missouri. A copy has also been forwarded to Ms. Diane Huffman, U.S. Environmental Protection Agency (EPA) Region VII, for concurrent review.

As you know, Volume II of the report is the CERCLA Preliminary Assessment which was completed and submitted in September 1992. Attached is the Summary of Recommendations for the facility.

Please contact either of the undersigned at (913) 492-9218 if you have any questions or comments.

Sincerely,

Stephanie B. Doolan ARCS Site Manager

Fred D. Reynolds, P.E. ARCS Program Manager

Enclosures

cc: Ms. Diane Huffman, EPA Work Assignment Manager

RECEIVED

SEP 3 0 1993

RCOM SECTION

ENVIRONMENTAL PRIORITIES INITIATIVE PRELIMINARY ASSESSMENT SILVANUS PRODUCTS, INC.

	Completed in accordance with EPA Guidance
<u> </u>	Fulfills requirements of the EPA-approved Work Plan
	Spellcheck run on submittal
χ	Historical operations and waste management practices investigated and incorporated into submittal (where known)
<u> </u>	Regulatory history investigated and discussed in submittal
X	Figure illustrating site location
<u> </u>	Figure identifying each SWMU
<u></u>	Potential receptors (surrounding population and natural resources) described
<u>x</u>	Public water supply wells identified
<u> </u>	Groundwater and surface water use described
<u></u>	SWMU/AOC descriptions
<u></u> オ	All statements substantiated with references
X	Recommendations developed and included
X_	SWMUs/AOCs and evidence of release summarized in a table
Sup Project Ma	Man B. Woolen 9/29/92 Date
	RECEIVED SEP OU 1993 RECEIVED SEP OU 1993 RECEIVED SECTION RECEIVED SECTION

ENVIRONMENTAL PRIORITIES INITIATIVE PRELIMINARY ASSESSMENT SUMMARY OF RECOMMENDATIONS

SILVANUS PRODUCTS, INC. STE. GENEVIEVE, MISSOURI EPA ID NO. MOD092351642 September 29, 1993

The Missouri Department of Natural Resources (MDNR) approved Silvanus' Closure Plan for the former drum storage area, Solid Waste Management Unit (SWMU) Number 1 on July 15, 1992. To date, RCRA Closure has not been implemented for this unit. Due to the storage of hazardous wastes in excess of 90 days by the facility's previous owner, Georgia-Pacific, and that the facility has not implemented the approved Closure Plan, Silvanus Products remains classified as an Interim Status Treatment, Storage, and Disposal Facility (TSDF) which subjects the facility to the requirements of 40 CFR Parts 262 through 266, 268, and 270 and the notification requirements of Section 3010 of RCRA.

The facility indicated that prior to 1992, they have considered themselves to be conditionally-exempt, small quantity generators of hazardous wastes, generating wastes in an amount of less than 220 lbs. per month. From the time Silvanus Products purchased the facility from Georgia-Pacific in 1984 until 1992, Silvanus Products disposed these wastes with the general refuse at the Mineral Point Landfill, which was closed in May 1993. However, the facility remains classified as an Interim Status TSDF because the Closure Plan for the former drum storage area was never implemented. As a result, the facility incorrectly assumed that it was a conditionally-exempt, small quantity generator and its waste rags soaked with cleaning solvents and inks (EPA waste code F003) and waste petroleum naphtha from the parts washers (EPA waste code D001) were illegally disposed in the county landfill.

The facility also illegally discharged the waste fixer/developer (EPA waste code D001) to the sanitary sewer without the prior written or verbal permission of the local POTW.

The potential exists for an environmental release to occur from the flammable material storage area, SWMU Number 2. There is no secondary containment, drums are exposed through the surrounding fence, and access to the site is uncontrolled. Secondary containment needs to be provided for this storage unit.

A filter needs to be installed in the ventillation system for SWMU Number 10, the antiquing spray booth, to prevent releases of airborne stains to the ambient air.

There has been a release of air compressor oil to the soils at Area of Concern (AOC) A. Although this oil has not yet been characterized for disposal, it is believed to be waste oil (Missouri waste code D098). This oil needs to be characterized in order to determine if a cleanup is necessary.

In general, no further sampling at the facility is recommended because the illegal disposal of wastes occurred at off-site locations (in the sanitary sewer and to the county landfill) where sampling is unlikely to detect the wastes. The chemical characteristics of the wastes are that they are volatile organic compounds that are unlikely to remain in the sewer system to sample, and finding the relatively small quantity of Silvanus wastes in the county landfill would be difficult.



TABLE OF CONTENTS (Continued)

LIST OF APPENDICES

Appendix A	Well Logs
Appendix B	Photo Log
Appendix C	Missouri Department of Natural Resources 1989 Compliance Evaluation Inspection Report
Appendix D	Missouri Department of Natural Resources Letter of Warning
Appendix E	Burns and McDonnell Waste Consultants Original Closure Plan Review Comments
Appendix F	Silvanus Products, Inc. March 30, 1992 Revised Closure Plan
Appendix G	Waste Manifests/Manifest Log
Appendix H	Safety-Kleen Wastestream Descriptions
Appendix I	RCRA Part A Application

EXECUTIVE SUMMARY

A Preliminary Assessment (PA) and Visual Site Inspection (VSI) were conducted by Terracon Environmental, Inc. (Terracon), on behalf of the U.S. Environmental Protection Agency (EPA) Region VII, at Silvanus Products, Inc. in Ste. Genevieve, Missouri on May 19, 1992.

Silvanus Products, Incorporated, is located at 40 Merchant Street in Ste. Genevieve County, Ste. Genevieve, Missouri. The site is located in the southeast quarter of Section 21, Township 38 North, Range 9 East.

Silvanus Products manufactures decorative printed and silk-screened vinyl products such as bank passbooks, checkbook covers, and vinyl covered notebooks. Printing and silk screening of paper products also occurred at the Silvanus facility. The original plant was built by General Passbook in 1927. It was purchased in 1978 by Georgia-Pacific and acquired by Silvanus Products in 1984. This facility has been in continuous operation since 1927 with fourteen building additions to the facility throughout its history.

Georgia-Pacific operated an interim status hazardous waste storage area which was a 15-foot by 35-foot room used to store drums of solvent-contaminated rags and waste ink generated from the printing processes. Sixteen drums of this waste were accumulated from 1980 to 1984, and were shipped to Chemical Waste Management in Emelle, Alabama for disposal prior to transfer of facility ownership to Silvanus. No closure activities were conducted for the storage area. Until 1992, Silvanus operated as a small-quantity generator (generating less than 220 lbs. per month of each hazardous wastestream) and has not used the storage area for hazardous wastes. Currently, Silvanus generates more than 220 lbs. per month of their hazardous wastestreams; however, the waste is stored for less than 90 days and is not accumulated in the former interim status storage area. Silvanus Products submitted a RCRA Closure Plan for the storage area used by Georgia-Pacific which was approved by the Missouri Department of Natural Resources (MDNR) with modifications on July 15, 1992. The Silvanus Closure Plan has not yet been implemented (Reference 67).

Potable water for the area is supplied by four groundwater wells which are owned by the City of Ste. Genevieve and are located approximately one-quarter of a mile south of the site. The total production from these wells is rated at 2.6 millon gallons per day. There are no surface water intakes for drinking water production within 15 miles downstream of the site.

The surface water drainage pathway from the property is to the east and south. Surface water run-off from the site flows east through culverts in flood levees built by Silvanus and, from there, finds its way to the Gabouri Creek system east of the facility. This drainage area flows to the southeast approximately one mile where it empties into the Mississippi River.

Two former and ten existing Solid Waste Management Units (SWMU) were identified at the site during the VSI. These included the former drum storage room, the flammable material storage area located west of the receiving dock, the storage area for recyclable lead scrap generated in typesetting operations, two present satellite collection points for solvent/ink contaminated rags generated in the printing and silk-screening processes, the waste fixer/developer drum outside the darkroom, the Safety-Kleen parts washers in the printing and maintenance areas, the adhesive and antiquing spray booths, the former paper waste incinerator in the drum storage room, and a general refuse dumpster. One Area of Concern (AOC), the oil discharge from a plant air compressor, was also identified during the VSI.

1.0 INTRODUCTION

A Preliminary Assessment (PA) and Visual Site Inspection (VSI) were conducted by Terracon Environmental, Inc. (Terracon), on behalf of the U.S. Environmental Protection Agency (EPA) Region VII, for Silvanus Products, Incorporated, (Silvanus Products) in Ste. Genevieve, Missouri. Terracon, as a subcontractor to Jacobs Engineering Group Inc. (Jacobs) within the EPA Alternative Remedial Contracting Strategy (ARCS) contract, performed these tasks as a part of the EPA Environmental Priorities Initiative (EPI), Work Assignment Number 47-7JZZ. Mr. Gene Williams, the direct state site contact, and Mr. David Freise, both with Missouri Department of Natural Resources (MDNR), were present at the VSI.

1.1 Objective

The objective of the EPI/PA was to conduct on-site and cursory off-site inspections of the Silvanus Products facility in order to characterize Solid Waste Management Units (SWMU), associated releases, and other Areas of Concern (AOC). The goals of the PA inspections are to determine whether or not a release has occurred or has the potential to occur, to identify any immediate threats to human health or the environment from an actual or potential release, to inventory SWMUs, and to determine if a site has the potential to be placed on the National Priority List (NPL) based on the PA Scoresheet (Revised Hazard Ranking System). The PA Scoresheet for the site is provided in Volume II of this report.

1.2 Scope of Work

The scope of this investigation included the following activities:

- A search of EPA and state files in an attempt to obtain and review specific documents that
 would help provide background information on historic and current facility processes and
 hazardous waste management practices.
- Development of a detailed site base map to scale including site features, SWMUs and AOCs.
- Evaluation of target populations within a four-mile radius from the site with regard to groundwater and air, and within a 15-mile downstream distance for surface water.
- A well survey within a four-mile radius of the site.
- Photodocumentation of all SWMUs and related releases and exposure pathways.

2.0 SITE DESCRIPTION

2.1 Site Location

Silvanus Products is at 40 Merchant Street in Ste. Genevieve, Missouri. The site is located in the southeast quarter of Section 21, Township 38 North, Range 9 East (Reference 1). Coordinates of the site are 37°58'48" North latitude and 90°02'30" West longitude (Reference 4). The site is bordered by the Missouri-Pacific Railroad on the east and residential/commercial buildings on the west (Reference 48). North of the building on company property is a large gravel parking lot (Reference 48). Beyond the parking lot lie other

downtown businesses (Reference 48). The Inn Ste. Gemme Bed and Breakfast is northwest of the property. South of the facility is the city water department office (Reference 48). Figure 1 depicts the site location. Figure 2 depicts the area within a four-mile radius of the site. Figure 3 is the site plan.

2.2 Site Features

The facility property is a triangular tract of land occupying approximately 2.88 acres, situated within the city limits of Ste. Genevieve, Missouri. The site elevation is 380 feet above mean sea level, and it lies within the 25-year flood plain of the Mississippi River (Reference 61). The site measures 264 feet, east to west, at its widest point and 600 feet, north to south, at the deepest point of the triangle (Figure 3). Access to the site is not controlled. The major feature is the combination brick, steel and lumber building, which covers most of the site. The plant building now occupies 65 to 75 percent of the property. The original 1927 building has had 14 additions throughout its history (Reference 48). Silvanus Products constructed the warehouse area, the most recent addition, in 1990 (Reference 57).

The ground surface slopes downward to the east and slightly south. At the eastern edge of the property is an earthen levee covered with cultivated grasses (Photograph 3). Stormwater drainage for the northern portion of the site consists of a large stormwater culvert on the northeastern border of the property (Photograph 4). Stormwater drainage for the western and southern portions utilizes an underground collection system which runs under the southwest corner and the extreme south end of the building. Water travels southeast, starting from the west side of the building and ends on company property at the stormwater culvert on the southeast end of the levee (Photographs 2, 7, and 8). From there, the water travels through culverts which pass through the levee and onto the adjacent railroad property (Figure 3).

Based on 1990 Census data, the population within increments of a four-mile radius is as follows (Reference 69):

Radius Sector	Population
025 mile	275
.2550 mile	826
.50 - 1.0 mile	3,368
1.0 - 2.0 miles	701
2.0 - 3.0 miles	501
3.0 - 4.0 miles	300

2.3 Ownership History

The Silvanus Products facility was originally constructed in 1927 by the General Passbook Company which operated the facility under that name until its sale to the Georgia-Pacific Corporation in 1978 (Reference 48). Georgia-Pacific operated the plant as a print-processing shop for vinyl covered products (Reference 48). In 1984 the facility was again sold to the present owners, Silvanus Products Inc. (Reference 48). Facility operations have undergone no significant changes since the present owners took possession of the property (Reference 48).

2.4 Nature of Operations

The Silvanus Products facility operates principally as a print and silk-screening manufacturing plant for vinyl notebook binders, menu covers, checkbook covers, paper products, and related items (Reference 48). The facility also manufactures bankbooks (Reference 4).

Processed vinyl and paper stock is purchased from third party suppliers and cut, printed, and assembled on-site (Reference 48). Main processes include the offset printing process and the silk-screen process (Reference 48). The binding-assembly areas are used by each of the press operations to complete assembly of the final product as needed (Reference 48). Support areas for both press operations include a darkroom photography area, building-machine maintenance area, and warehouse (Reference 48).

2.4.1 Printing Process

The printing process is a standard offset printing operation (Reference 48). Some typeset printing is also performed (Reference 48). Original artwork, logos, etc., are captured on film, developed on-site, and transferred to negative plates which are used on the printing presses to transfer the ink to vinyl or paper in the designs required (Reference 57). Fixer and developer waste solutions are generated in three areas and collected in one 55-gallon drum (SWMU Number 6), which is kept outside the darkroom (Reference 48). A variotype typesetter is stationed in the office area, and used to create copies of original artwork or lettering (Reference 48). Solutions used there are changed/replenished approximately every two weeks and include one gallon of developer and one gallon of fixer (Reference 48). The darkroom solutions are changed/replenished approximately once a month; volumes vary (Reference 48). Located just outside of the darkroom is the plate developer where the final transfer of artwork is made to negative plates used for offset printing (Reference 48). Solutions in the plate developer are changed/replenished every eight weeks; volumes vary (Reference 48). From these three sources, one drum of waste fixer/developer is generated every six months (Reference 48). Disposal of this material is currently handled by Safety-Kleen, EPA Identification Number KYD053348108, whenever a drum becomes full (Reference 57).

There are four offset presses used in the Silvanus printing process (Reference 48). Ink is placed in a reservoir on each press (Reference 48). Water is used to keep the press rollers damp (Reference 48). This water becomes tainted with ink residue and is collected and discharged to the public sewer system (Reference 48). A sample of the water was tested by Safety-Kleen in early 1992 and was found to be nonhazardous (Appendix H). Silvanus possesses no permit, however, from the local POTW for this discharge (Reference 66). During normal operation, drum rollers and other press parts must be periodically cleaned of residual ink to prevent fouling printed products (Reference 48). In this cleaning process, a solvent applied to cotton rags is used to wipe the presses (Reference 48). These soiled rags are stored at each press station in covered five-gallon cans, which are emptied at the end of each shift into a 55-gallon drum (SWMU Number 4), centrally located in the printing shop area (Reference 48). Excess ink generated due to press color changes, etc., also goes into these five-gallon cans (Reference 48). The 55-gallon drum containing waste rags and ink from the printing operation is filled approximately every six to eight weeks and picked up by Safety-Kleen (Reference 48).

Within the printing area, a commercial parts washer is maintained by Safety-Kleen (SWMU Number 7, Photograph 24). The twenty gallons of petroleum naphtha in this washer is changed out every six weeks by the servicing company (Reference 48).

Two Ludlow lead-type typesetters are also located within the printing area (Photograph 12). Thirty-pound lead bars are heated to 450 degrees and used to form linotype slugs (Reference 48). Waste/scrap lead used in this operation is collected and returned to United American Metals Corporation in Chicago for recycling (Reference 48). This scrap is stored in an open 55-gallon drum located next to the typesetters (SWMU Number 3, Photograph 13). In the 18 months preceding May 1992, Silvanus purchased 3,757 pounds of lead from their distributor and recycled 3,460 pounds (Reference 62). The remaining lead, which is 297 lbs. in this instance, is either stored as printing type to be used later, unused lead, and/or is accumulating in the 55-gallon drum for recycling (Reference 67). The linotype presses which use this typeset require the same ink, solvents, solvent rags, and waste containment used with the offset printing operation outlined above (Reference 48). Waste rags and ink from the linotype press process are accumulated in the 55-gallon drum in the printing shop (SWMU Number 4).

2.4.2 Silk-Screen Process

The silk-screening process involves seven semi-automatic and one automatic silk-screen presses, three covered ultra-violet dryers, and one ultra-violet light room (partitioned from processing room with cloth drapes) (Reference 48). Ink storage is maintained along the east wall and consists of four open storage racks with six shelves to each rack. Two racks consist of all six shelves filled with half-gallon cans of ink. The remaining two racks contain one-gallon cans of ink on the bottom five shelves and half-gallon cans on the top shelf (Photograph 14). At each silk-screen press there are two covered cans for soiled rags as well as a clean solvent can (Photograph 18). The two rag storage container system allows press operators to reuse less soiled rags and store them separately between uses in a five-gallon container (Reference 48). Once the rags become full of ink, they are discarded to the ten-gallon waste container (Reference 48). Excess ink waste produced during ink application to the press is also discarded to the large container (Reference 48). Located among the silk-screen presses is a 55-gallon drum (SWMU Number 5) which is used to collect the soiled rags from the press stations (Reference 48). This waste generation, accumulation, and disposal is identical to the waste management practices employed in the offset printing department.

The two-foot by three-foot screens used in the silk-screen printing process are washed clean when the job batch has been completed (Reference 48). Cleaning solutions are applied to the screen and rinsed clean by a high pressure sprayer (Photograph 19). Fifteen to twenty screens are cleaned per day in a batch process (Reference 48). Wastewater from this process is discharged directly to the POTW (Reference 48). A sample of the water was tested by Safety-Kleen in early 1992 and was found to be nonhazardous (Appendix H). According to personnel contacted at the POTW, no permit was issued for this discharge (Reference 66).

Following the printing process (from silk-screening or offset printing), vinyl products are cut to size and sent to the "sealing" room where the vinyl is arranged around cardboard or styrofoam inserts as appropriate and sealed using radio waves to bond the edges together (Reference 48). The product is then sent to assembly where ringbinders are mechanically attached to notebook binders (Reference 48).

Vinyl and paper waste trim generated during these manufacturing operations is recycled when possible (Reference 48). In addition, paper trim may be used as packing material to ship final products (Reference 48). All vinyl and paper scrap too small or too dirty to recycle or use as packing material becomes a part of the general refuse wastestream (Reference 48). General refuse, picked up by the Tutor Refuge Services Company in Ste. Genevieve, was previously sent to the Mineral Point Landfill in DesLoge, Missouri until it was closed on May 31, 1993. Currently, the general refuse wastestream is sent to a landfill in DeSoto, Illinois (Reference 68).

One 55-gallon drum of waste oil produced from compressor operation is accumulated in a drum at the flammable materials storage area and will be disposed by Safety-Kleen (References 48 and 67). The drum, which was not yet full at the date this report was finalized (Reference 67), is stored in the flammable material storage area located west of the loading dock (SWMU Number 2, Photograph 7).

2.4.3 **Ancillary Processes**

Ancillary processes include "embossing", "antiquing", sewing, and turned-edge sealing some of the vinyl and/or paper products. Flammable solvents and adhesives (hide glues) are used in these activities. An adhesive spray booth is operated in the sealing area (SWMU Number 9). Air filters in the booth are changed as needed and disposed as part of the general refuse wastestream. A second booth is used for "antiquing" (staining) and vents directly to the outside air (SWMU Number 10).

2.5 Permit and Regulatory History

Georgia-Pacific submitted a Notification of Hazardous Waste Activity Form (EPA Form 8700-12) on August 18, 1980 which indicated activity as a generator and TSD facility (Reference 2). The EPA waste codes listed on the form were F001, F002, F003, F004, F005, U002, U031, U112, U117, U159, U239, D001, D002, D003, and D004. Georgia-Pacific received its Missouri generator identification number in September 1980 (Reference 38). On November 18, 1980, Georgia-Pacific submitted a RCRA Part A Permit Application for a 15-foot by 35-foot room used to store waste rags containing solvent (Reference 4). The Part A application was modified in 1984 with the deletion of waste codes D001, D002, and D003 (Reference 26). This document indicates container storage capacity of 5,500 gallons. Generation volumes for each of the wastes identified above were estimated at 1,500 pounds per year (Reference 4). The Georgia-Pacific 1982 Annual Generator and Facility Hazardous Waste Report indicates that a total of 3,600 pounds of rags soiled with printer's ink and solvents were generated and stored on the premises (Reference 19).

A letter was sent to Georgia-Pacific by EPA Region VII in May 1982 indicating that its facility may qualify as a small quantity generator and thus be exempt from RCRA regulations (Reference 10). The response from the company, dated August 26, 1982, stated that in light of potential legislation expanding RCRA to cover small generators, Georgia-Pacific requested EPA continue to process its Part A permit (Reference 11).

In 1982, Georgia-Pacific received its first state-supervised Compliance Evaluation Inspection (CEI) (Reference 39). Findings documented in this report include: no liquid hazardous waste generated, cleaning rags with waste residue generated and stored in 55-gallon drums, job descriptions lack identification of hazardous waste management duties, and no sign posted restricting access to hazardous waste storage area (Reference 39). A reply from Georgia-Pacific dated August 18, 1982 indicates the company took corrective action to the CEI findings (Reference 40).

In May 1984, Georgia-Pacific informed MDNR that the facility in Ste. Genevieve had been purchased by the present owners, Silvanus Products, Incorporated, (Reference 27) and requested that the generator number and interim status be transferred to the new owner (Reference 27). Silvanus Products then notified MDNR that Georgia-Pacific's interim status and hazardous waste generator number would not be applicable to Silvanus Product's plant operation and requested this number and status not be transferred to the new company (Reference 64). In June 1984, MDNR Waste Management Program notified Georgia-Pacific that the company's status would be reclassified, and both the Missouri and RCRA identification numbers would be retained but

placed on an inactive status (Reference 41). On June 21, 1984, Georgia-Pacific shipped the waste stored at the facility to Chemical Waste Management in Emelle, Alabama using Kies Transport (EPA Identification Number KSD980853246). No closure activities for the RCRA permitted storage unit were undertaken.

Silvanus Products' 1988 CEI report stated that "Silvanus Products Incorporated is not registered with the Department (MDNR) for any hazardous waste activity" (Reference 30), and also stated that Georgia-Pacific's Missouri Generator ID number would be assigned to the facility pending approved closure of the RCRA-permitted storage unit. Silvanus was considered by MDNR to be a treatment, storage, and disposal (TSD) facility since closure documentation and approval had not been effected by either Georgia-Pacific or Silvanus (References 31 and 44).

Silvanus Products submitted the "Post-Closure Completeness Report" in 1991 (Reference 65). This report attempts to address the Closure Plan and satisfy closure requirements by showing that no further action should be required.

In November 1991, MDNR informed Silvanus that a consulting engineering firm commissioned by MDNR would be conducting a review of the facility's Closure Plan (Reference 33), which was dated September 1, 1982 and entitled "Closure Plan Georgia-Pacific Corporation" (Reference 33).

In March 1992, Silvanus Products issued a revised Closure Plan based on MDNR review of the 1982 Closure Plan submitted by Georgia-Pacific (Reference 47) (Appendix F). This revised plan was reviewed and approved by MDNR on July 15, 1992. The closure of the former storage area has yet to be implemented (Reference 67).

3.0 ENVIRONMENTAL SETTING

This section provides information necessary to evaluate the potential impact of an environmental release to area soil, surface water, and groundwater receptors.

3.1 Water Supply

Potable water for the area is supplied by the City of Ste. Genevieve, Missouri. The total water supply comes from four wells located in the southeast quarter of the southeast quarter of Section 21 T38N R9E, within one-quarter of a mile south of the site (Figure 4). The area is identified as the Bois Brulle Bottom area (Reference 1). The four wells are capable of producing a total of 2.6 million gallons per day (Reference 49) and serve the City of Ste. Genevieve, approximately 4,480 people (Reference 63). There are no surface water intakes for drinking water production within 15 miles downstream of the site (Reference 1).

The MDNR's computerized water well database, administered by MDNR's Division of Geology and Land Survey, identified 29 wells within a four-mile radius of the site (Reference 52). Information regarding the wells is presented in Table 1. Only one of the 29 wells is described as a business-owned well (Reference 52). Twenty-six of the wells are listed as domestic use (Reference 52). It should be noted that all of the well logs obtained from the database indicate that wells were completed in the unconsolidated materials. One well is listed as a county water supply (Reference 52). The use designation for two of the wells was not available (Reference 52). The current status of wells installed prior to 1987 is unknown and is not part of the state's computerized well database. However, copies of some logs for these wells do exist (Reference 52). The wells closest to the project site appear to be the Ste. Genevieve municipal wells diescribed above. The Ste. Genevieve municipal wells did

not show up on the database printout; however, copies of three of these well logs are provided in Appendix A. The county water supply well is located between three and four miles from the site, in Zell, Missouri. Four wells comprise the south-central portion of the county water supply. The well in Zell is one of the two main wells in the south-central system. The south-central system serves approximately 3,000 people. The well in Zell supplies approximately one-half the water for this system (Reference 63).

Wastewater from the Silvanus facility is discharged to the City of Ste. Genevieve sewer system (Reference 48). Wastewater treatment is conducted in an oxidation ditch in the Valle Spring Branch (Reference 66). The sewage lagoons which appear on the United States Geological Survey (USGS) topographic map (Figure 4) were formerly located approximately three-eighths of a mile southeast of the facility and were destroyed by a flood in 1986 (Reference 66). Total capacity for this system is 750,000 gallons per day; however, normal processing at this time is around 500,000 gallons per day (Reference 49). Treated wastewater is discharged to the Mississippi River. As discussed previously, POTW personnel indicated that they had issued no written or verbal permission to Silvanus to discharge wastewater to the municipal sewer system (Reference 66).

3.2 Surface Waters

The area watershed is the Mississippi River Basin (Reference 51). The MDNR further defines the drainage basin serving the Silvanus Products site as the "Upper Mississippi River Basin Below St. Louis" (Reference 51). The Soil Conservation Service (SCS) identifies the watershed area as sub-basin 050000 (Reference 51). The USGS catalogs the area as hydrologic unit 07140101 (Reference 51).

Although surface water flows generally northeasterly for the county of Ste. Genevieve as a whole, the surface water drainage pathway from the facility property is to the southeast. Surface water run-off across the site flows generally to the east through two levee culverts situated at the north and south ends of the east side of the building, and then finds its way to either the North or South Gabouri Creeks or the Valley Spring Branch. These streams join east of the city and subsequently empty into the Mississippi River approximately one mile southeast of the site (Reference 1).

3.3 Area Soil, Geology, and Hydrology

The Silvanus Products site is located in the Ozark Plateau physiographic province of the United States (Reference 53). Within this province, the facility is situated along the eastern edge of the Karst Plain, on which the present City of Ste. Genevieve rests, and the Mississippi River flood plain region on which "oldtown" Ste. Genevieve rests (Reference 53).

The Karst Plain is described as:

"...a band of upland about 5 miles wide extending from Frenchman Hollow southward into Perry County near St. Marys. It is bordered on the west by gradual ascent to the River Hills area and on the east by the Mississippi flood plain. It is characterized by sinkholes and sinkhole ponds. Thick loess covers the area, and the underlying bedrock is predominately limestone... Menfro soils are dominant in the Karst Plains." (Reference 53)

The Mississippi flood plain and the secondary streams and terraces accompanying this landform invariably consist of gravelly material in the upper reaches of the smaller streams (Reference 53). Downstream, the gravelly material forms continuous beds that underlie other alluvium as basal deposits (Reference 53). Deposited on the gravelly material and increasing in thickness downstream is loamy alluvium (Reference 53). Midco Bloomsdale, Ross, Haymond, and Wilbur soils formed in these materials (Reference 53). Loamy, silty, and clay alluvium was deposited on the Mississippi River flood plain. Carr, Haynie, Nameoki, and Wabash soils formed in these materials (Reference 53).

The Silvanus Products site is located on the western edge of the Haynie-Wabash-Nameoki association (Reference 53).

Wabash soils are very poorly drained and are mostly in shales farthest from the river (Reference 53). Typically, the surface soil is very dark grayish-brown silty clay about 12 inches thick (Reference 53). The subsoil to a depth of about 73 inches is very dark gray and dark gray, mottled, very firm silty clay (Reference 53). In some areas, the subsoil has thin loamy or sandy lenses (Reference 53).

The permeability of this soil is very slow, surface run-off is very slow or ponded, and available water capacity is moderate (Reference 53). Reaction is neutral or mildly alkaline throughout (Reference 53). Natural fertility is high, and organic matter content is moderate (3-4 percent) (Reference 53). The shrink-swell potential is very high (Reference 53).

Nameoki silty clay loam make up the second soil classification in this association (Reference 53). Like the Wabash soils, the Nameoki soils are poorly drained and nearly level (Reference 53). They are subject to frequent flooding unless protected by a levee (Reference 53). In most areas, the surface is ridges and shales (Reference 53). Typically, the surface and subsurface layers are very dark gray silty clay about 15 inches thick (Reference 53). The subsoil is about 20 inches thick (Reference 53). It is dark gray and dark grayish-brown, very firm silty clay in the upper part and dark grayish-brown clay loam in the lower part (Reference 53). The substratum to a depth of 70 inches or more is grayish-brown silt in the upper part and grayish-brown sand in the lower part (Reference 53). Permeability, water capacity, reaction values, organic content, and fertility are identical to the Wabash soils outlined above (Reference 53).

Haynie silt loam makes up the last soil type in this association (Reference 53). The surface layer is typically very dark grayish-brown silt loam about nine inches thick (Reference 53). The underlying material to a depth of about 60 inches is stratified grayish-brown and dark grayish-brown silt loam and brown and grayish-brown, very fine sandy loam (Reference 53). In some areas the very dark grayish-brown surface layer is more than ten inches thick. The surface layer is loam in some areas (Reference 53). There are some areas scattered through this soil type that contain more fine sand than this Haynie soil and are lighter in color (Reference 53).

The permeability of this soil is moderate, surface run-off is slow, and available water capacity is high (Reference 53). Soil pH is neutral or mildly alkaline throughout (Reference 53). Natural fertility is high, and organic matter content is moderate (Reference 53).

On a regional basis, the site lies in the western edge of the Mississippi River flood plain (Reference 60). The limestone known as the St. Louis Formation of the Meramecian Series, of the Mississippian System, comprises the upper bedrock unit in this region (Reference 54). The Meramecian Series is composed mainly

of beds of limestone and some dolomite (Reference 54). The beds are separated by relatively thin layers of blue to bluish-gray shale (Reference 54).

The St. Louis Formation is characterized by being gray and very fine crystalline (lithographic) to white and coarsely crystalline with occasional beds of oolite (Reference 60). The upper and lower parts of the St. Louis Formation are thin bedded and contain irregularly bedded chert (Reference 60). The middle portion of the formation is thicker bedded, with occasional cross bedding, brownish, dolomitic and rarely contain chert (Reference 54). In Ste. Genevieve County, the lower half of the St. Louis Formation contains an abundance of the coral *Lithostrotion proliferum* (Reference 54). The St. Louis Formation-type section is located in St. Louis County, approximately 60 miles north of the site (Reference 60). The thickest vertical expression (over 100 feet thick) is present in St. Louis County and surrounding portions of east-central and southeastern Missouri (Reference 54).

The Salem ("Spergen") Formation underlies the St. Louis Formation (Reference 54). The Salem attains its greatest thickness in the same geographical areas as the St. Louis Formation (Reference 54). The Salem can be 100 to 160 feet thick in this region (Reference 60). The Salem is a white to bluish-gray, sandy to oolitic, dolomitic limestone (Reference 60). The upper portion of the Salem is fossiliferous (Reference 54).

Bedrock groundwater at the site is classified as part of the Southeast Missouri Lowland Groundwater Province (Reference 58). These areas contain three principle aquifers: the alluvium, the Wilcox Group, and the McNairy Formation (Reference 58). The Silvanus site lies adjacent to the Mississippian River flood plain and therefore is associated with this river's alluvial aquifer. Groundwater flow in the alluvium is typically southward; however, locally, it may flow in other directions (Reference 58). Water quality from the alluvium deposits along the Mississippi River is generally very good and used primarily by municipalities as a drinking water supply (Reference 58). The dissolved solids concentration of water drawn from this formation typically ranges from 100 to 350 parts per million (ppm), and usually contains low levels of chloride, sulfate, and hardness (Reference 58). Well yield from the alluvial deposits is high and commonly range from 500 to 1,000 gallons per minute (Reference 58).

Representative well logs from area wells are included in Appendix A.

3.4 Area Climatology

The Silvanus Products site is near the geographical center of the United States. There are no natural topographic obstructions to prevent the free sweep of air from all directions. The influx of moist air from the Gulf of Mexico, or dry air from the semi-arid regions of the southwest, determine whether wet or dry conditions will prevail.

The National Oceanic and Atmospheric Administration records climatological data at Farmington, Missouri which lies 22 miles west-southwest of Ste. Genevieve, Missouri. The National Climatic Data Center compiled the following information for the period 1951-1990, inclusive (Reference 59).

Early spring brings a period of frequent and rapid fluctuations in weather, with the fluctuations generally less frequent as spring progresses (Reference 59). The summer season is characterized by warm days and mild nights, with moderate humidity (Reference 59). July is the warmest month (Reference 51). The fall season is normally mild and usually includes a period near the middle of the season characterized by mild, sunny days, and

cool nights (Reference 51). Winters are not severely cold (Reference 51). January is the coldest month (Reference 51). Snowfall to a depth of ten inches is comparatively rare (Reference 51). The distribution of measurable snow normally extends from November to April (Reference 51).

In the winter months of November, December, January, and February, the average temperature is 36°F. The lowest temperature recorded in 1990, which occurred on December 24, was 0°F (Reference 59). In the summer months of June, July, and August, the average temperature is 75°F (Reference 59). The highest recorded temperature in 1990 occurred on September 8. It was 96°F (Reference 59).

The average total annual precipitation is 40 inches (Reference 51). Of this, 23 inches, or 57.5 percent, usually falls in March through August (Reference 51). December through February receives only eight inches precipitation, on average (Reference 51). The maximum expected rainfall for any one day is 5.5 inches which may be expected to be exceeded every 25 years (Reference 51). The maximum expected rainfall for any ten-day period would be just under nine inches for the same 25-year period (Reference 51).

The average seasonal snowfall is twelve inches (Reference 51). Temperature significantly affects the type of winter precipitation. Influence of warm Gulf air is most pronounced as most winter precipitation falls as rain (Reference 51).

3.5 Critical Habitats/Endangered Species

The Missouri Department of Conservation provided the following statement regarding threatened and endangered species within a four-mile radius of the site (Reference 56):

"The Department staff examined map and computer files for federal and state threatened and endangered species and determined that no sensitive species or communities are known to occur on the immediate site or surrounding area. The lack of records, however, does not mean that such species or communities do not exist on this tract of land. Only an on-site inspection could verify their absence or existence."

No threatened or endangered species, or high-quality natural communities, were observed on-site during the VSI.

4.0 VISUAL SITE INSPECTION

The VSI of the former Silvanus Products site was performed May 19, 1992. The VSI focused on the past and present wastestreams at the facility in order to identify all SWMUs and to collect information beneficial in assessing their potential to release hazardous waste or constituents to the environment. Weather conditions at the site during the VSI were clear, with temperatures in the 70s and light to no winds.

During the VSI, two Silvanus Products representatives and two MDNR representatives accompanied the Terracon investigation team; however, during the pre-VSI and post-VSI meeting, two other Silvanus Products representatives were present. A complete list of individuals attending the VSI is presented in Section 4.1.

4.1 Visual Site Inspection Participants

The following personnel were present during the VSI:

Roger Wood Environmental Scientist Terracon Environmental, Inc.

Larry French Regulatory Compliance Specialist Terracon Environmental, Inc.

Gene Williams
Environmental Engineer
Waste Management Program
Missouri Department of Natural Resources

Dave Freise Environmental Engineer Waste Management Program Missouri Department of Natural Resources Vernon Schwent Manager, Special Projects Silvanus Products, Inc.

Urban Klein President Silvanus Products, Inc.

Bob Rottler Majority Stockholder Silvanus Products, Inc.

Gary Hammer Production Manager, Passbook Department Silvanus Products, Inc.

4.2 Solid Waste Management Units and Areas of Concern

Two former and ten existing SWMUs were identified at the site during the VSI. These included the old drum storage room (a former SWMU), the flammable material storage area located west of the receiving dock, the storage area for recyclable lead scrap generated in typesetting operations, two present satellite collection points for solvent/ink contaminated rags generated in the printing and silk-screening processes, the waste fixer/developer drum outside the darkroom, the Safety-Kleen parts washer in the printing area, the adhesive and antiquing spray booths, the former paper waste incinerator, and the general refuse dumpster. One AOC, the hydraulic fluid discharge from a plant air compressor, was also identified during the VSI.

All SWMUs and AOCs are described in Table 2 and summarized in Table 3. The locations of all SWMUs, past and present, were photographed with the exception of the satellite drum located in the silk-screening area and the Safety-Kleen parts washer in the maintenance room.

REFERENCES

- 1. United States Geological Survey, 7.5 Minute Series Topographical Map, Ste. Genevieve, Missouri Quadrangle, Photo revised 1975.
- 2. EPA Form 8700-12 (6-80), Notification of Hazardous Waste Activity, Georgia-Pacific Corporation National Cover Division, August 18, 1980.
- 3. EPA Form 8700-12B (4-80), Acknowledgement of Hazardous Waste Activity, EPA Region VII office, November 13, 1980.
- 4. EPA Form 3510-1 (6-80), Hazardous Waste Permit Application, Georgia-Pacific Corporation of Missouri, November 6, 1980.
- 5. EPA Form letter, Acknowledgement of Application for a Hazardous Waste Permit, EPA Region VII office, Undated.
- 6. Letter; EPA to Georgia-Pacific Corporation, Undated, RE: Request to resubmit an amended Notification of Hazardous Waste Activity EPA form 8700-12, August 13, 1980.
- Letter; Russell Johnson, Georgia-Pacific Corporation to EPA, July 10, 1981, In RE: Request to amend errors on original Hazardous Waste Permit - EPA form 8700-12, dated August 13, 1980, letter w/ amended form 8700-12.
- 8. Letter; Lyndell Harrington, EPA to John Doyle, Missouri Department Of Natural Resources, April 6, 1981, RE: Notice of proposed Hazardous Waste Part A permit action and conditions.
- Certified letter; David Wagoner, EPA to Philip McKersie, Georgia-Pacific Corporation, May 27, 1982,
 RE: closure, post-closure and financial responsibility.
- 10. Letter; Lynn Harrington, EPA to Robert Schumaker, Georgia-Pacific Corporation, May 27, 1982, RE: Informing Company they may qualify as small quantity generator and be exempt from RCRA regulations.
- 11. Letter; Philip McKersie, Georgia-Pacific Corporation to Robert Morby, EPA, August 26,1982, In RE: request that EPA continue processing Part A RCRA permit.
- 12. Georgia-Pacific Financial Responsibility Report, Cover letter; Beverly Gholson, Georgia-Pacific to EPA dated: September 27, 1982.
- 13. Letter; David Wagoner, EPA, to Robert Schumaker, Georgia-Pacific Corp., subject: Conditions of operation of Georgia-Pacific Corp. during interim status, October 5, 1982.
- 14. Letter; Brain Warsham, Georgia-Pacific Corp. to David Wagoner, EPA Region VII, October 26, 1982. RE: Request to amend Official Operator's Name and Owner's Name to read; Georgia-Pacific Corporation.

- 15. Letter; Robert Morby, EPA Region VII, to Beverly Gholson, Georgia-Pacific Corp., RE: Need for Closure Plan Cost to continue processing application, November 12, 1982.
- 16. Letter; Lynn Harrington, EPA to Brian Warsham, Georgia-Pacific Corporation, November 15, 1982, RE: Acknowledge Owner Operator error and reissue corrected Terms and conditions for interim status.
- 17. Letter; Beverly Gholson, Georgia-Pacific to Midge Given, EPA Region VII, December 15, 1982. RE: Request additional time to provide Closure cost estimates.
- 18. Letter; Brain Warsham, Georgia-Pacific Corp. to Robert Morby, EPA Region VII, December 28, 1982. RE: Closure, Postclosure plans and estimated cost.
- 19. EPA Form 8700-13A (5-80) (Revised 10-82), Generator Annual Hazardous Waste Report; Georgia-Pacific Corporation site Ste. Genevieve. January 7, 1983.
- 20. Georgia-Pacific Financial Responsibility Report, Cover letter; Beverly Gholson, Georgia-Pacific to EPA, March 31, 1983.
- 21. Letter; Robert Morby, EPA Region VII, to T. Marshall Hahn, Jr., Georgia-Pacific Corp., May 2, 1983. RE: Acknowledge receipt of Financial Responsibility information.
- 22. Certified letter, Robert Morby, EPA Region VII, to T. Marshall Hahn, Jr., Georgia-Pacific Corp., August 25, 1983. RE: Need for Closure Plan Cost to continue processing application.
- 23. EPA Conversation Memo, Midge Given, EPA talked with Ken Purvis, MDNR. August 4, 1983. RE: Georgia-Pacific not on State Hazardous Material Generator List.
- 24. EPA Conversation Memo, Midge Given, EPA talked with MDNR representative. December 6, 1983. RE: Transfer TSD information to state regarding Georgia-Pacific facility.
- 25. "Closure Plan Cost Review" cover letter; Wolfgang Scheucher, MDNR to Philip Kersie, Georgia-Pacific. March 30, 1984. RE: Georgia-Pacific must address deficiencies in Closure Plan.
- 26. Routing And Transferral Slip. EPA inter office form 41 (rev. 7-76). From Michele Perry-Williams to Alfretta Griddine. RE: Delete Waste codes D000 thru D003 of Part A application.
- 27. Letter; Saul Furstein, Georgia-Pacific to David Vedan(sic), MDNR, May 25, 1984. RE: Informing agencies of ownership transfer to Silvanus Products.
- 28. Routing And Transferral Slip. EPA inter office form 41 (rev. 7-76). From B. Harris to Alfretta. RE: change ownership to Silvanus Products. August 24, 1984.
- 29. Letter; Michael Sanderson, EPA Region VII to Philip McKersie, Georgia-Pacific(sic), April 5, 1985. RE: Notification RCRA amendments enacted November 8, 1984.
- 30. 1988 State CEI inspection Report. Greg Pavely, MDNR Poplar Bluff Regional Office, site inspector.

- 31. 1989 State CEI inspection Report. Albert Wampler, MDNR Poplar Bluff Regional Office, site inspector.
- 32. Certified letter; Diane Huffman, EPA Region VII to Urban Klein, Silvanus Products, November 14, 1991. RE: Section #3007 information request.
- 33. Letter; Daniel Tschirgi, MDNR to Urban Klein, Silvanus Products, November 20, 1991. RE: Notification to company of Closure Plan Review by MDNR consulting engineer firm.
- 34. Letter; Daniel Tschirgi, MDNR to Urban Klein, Silvanus Products, December 6, 1991. RE: Closure Review Inspection (CRI).
- 35. 3007 letter response; Urban Klein, Silvanus Products to Diane Huffman, EPA Region VII, December 9, 1991.
- 36. Certified letter; Daniel Tschirgi, MDNR to Urban Klein, Silvanus Products, January 24, 1992. RE: Comments and recommendations from Closure Review Inspection (CRI).
- 37. Certified letter; Daniel Tschirgi, MDNR to Urban Klein, Silvanus Products, February 27, 1992. RE: response time extension granted to company.
- 38. Letter; Kenneth Davis, MDNR to James Vaeth, Georgia-Pacific, September 3, 1980. RE: Missouri generator ID number.
- 39. 1982 State CEI inspection Report. Daniel Leyland, MDNR Poplar Bluff Regional Office, site inspector.
- 40. Letter; Philip McKersie, Georgia-Pacific Corporation to David Bedan, MDNR, August 18,1982, RE: Response to 1982 CEI report.
- 41. Letter; Kenneth Purvis, Jr., MDNR to Georgia-Pacific, June 7, 1984. RE: Removal of company from generator list.
- 42. Letter; M.P. Murphy, Georgia-Pacific to Jim Hull, MDNR, September 5, 1984. RE: Document phone conversation about ownership transfer.
- 43. Letter of Warning (LOW) #90-SE-003, MDNR to Urban Klein, Silvanus Products, May 2, 1990.
- 44. Letter; Arthur Groner, MDNR to Urban Klein, Silvanus Products, June 27, 1990. RE: MDNR position on Silvanus Products interim status.
- 45. Letter; Bruce Martin, MDNR to Urban Klein, Silvanus Products, September 6, 1990. RE: Post-Closure completeness report.
- 46. Letter; Urban Klein, Silvanus Products, to Bruce Martin, MDNR, October 30, 1991. RE: New copies of Post-Closure Completeness report.
- 47. Closure Plan for Silvanus Products Corp., Ste. Genevieve, Missouri, March 21, 1992.

- 48. Field Notes, Silvanus Products Incorporated, VSI, May 19, 1992.
- 49. Personal Communication, Gene Thurman, Assistant Superintendent of Public Works, Ste. Genevieve, Missouri, to Roger Wood, Terracon Environmental, June 4, 1992.
- 50. Letter; Gene Thurman, City of Ste. Genevieve, to Roger Wood, Terracon Environmental, June 9, 1992. RE: Requested information well logs of city wells.
- 51. Missouri Department of Natural Resources, Missouri Water Atlas, 1986.
- 52. Beth Marsalis, Missouri Department of Natural Resources, Division of Geology and Land Survey.
- 53. U.S.D.A., Soil Conservation Service, Soil Survey of Ste. Genevieve County, Missouri, 1985.
- 54. John W. Koenig (ed), <u>The Stratigraphic Succession in Missouri</u>, Vol. XL, Second Series, Geological Survey and Water Resources, September 1961.
- 55. E.B. Branson, <u>The Geology of Missouri</u>, Vol. XIX the University of Missouri Studies No. 3, University of Missouri: Columbia, 1944.
- 56. Letter; Dan F. Dickneite, Missouri Department of Conservation, to Roger Wood, Terracon Environmental, subject: endangered and threatened species, May 11, 1992.
- 57. Personal Communication, Vernon Schwent, Silvanus Products Corp., information provided during Visual Site Inspection, May 19, 1992.
- 58. U.S.G.S., <u>Mineral and Water Resources of Missouri</u>, Volume XLIII Second Series, U.S. Government Printing Office, 1967.
- NOAA and NCDC, <u>Climatological Data Annual Summary</u>, <u>Missouri</u>, 1990, Vol. 94, Number 13. ISSN 0364-6068.
- 60. Alfred C. Spreng, <u>The Stratigraphic Succession in Missouri</u>, Vol. XL, Second Series, University of Missouri School of Mines, Rolla, Missouri, 1961.
- 61. U.S Dept. of Housing and Urban Development, Flood Hazard Boundary Map H-01; City of Ste. Genevieve, Missouri. 1977.
- 62. Material inventory records 1991-92, MSDS, Waste records; Supplied by Silvanus Products, May 29, 1992.
- 63. Ste. Genevieve County Public Water Supply District, Personal Communication, September 28, 1992.
- 64. Letter; Phillip McKersie, Silvanus Products Corp., to David E. Bedan, MDNR, May 29, 1984. RE: Request for MDNR not to Transfer EPA Identification Numbers from Georgia-Pacific to Silvanus Products.

- 65. <u>Post Closure Completeness Report</u> for Silvanus Products Corp., Ste. Genevieve, Missouri, October 30, 1991.
- 66. Personal Communication, Gene Thurman, Assistant Superintendent of Public Works, Ste. Genevieve, Missouri, to Stephanie Doolan, Jacobs Engineering Group Inc., September 22, 1993.
- 67. Personal Communication, Vernon Schwent, Silvanus Products, to Stephanie Doolan, Jacobs Engineering Group Inc., September 27, 1993.
- 68. Personal Communication, Tutor Refuge Service Company, Ste. Genevieve, Missouri, to Stephanie Doolan, Jacobs Engineering Group Inc., September 27, 1993.
- 69. U.S. Environmental Protection Agency, Graphic Exposure Modeling System (GEMS), 1989.

TABLES

Missouri Water Well Database Four-Mile Radius of Silvanus Products

TABLE 1

Reference No.	Water Use	Location	Depth
15695A	Domestic	SEC 18 38N 09E	1122
31523A	Domestic	NE¼ NW¼ SEC 26 38N 09E	810
31522A	Not reported	NW¼ SEC 26 38N 09E	160
64730A	Domestic	NW¼ NE¼ SEC 34 38N 09E	230
07724A	Domestic	38N 09E	351
15689A	Domestic	SE¼ NW¼ SEC ? 38N 08E	150
35122A	Domestic	SEC 05 38N 08E	123
64377A	Domestic	SE¼ NW¼ SEC 07 38N 08E	150
41435A	Domestic	SW¼ NE¼ SEC 09 38N 08E	130
15826A	Domestic	SEC 17 38N 08E	130
64376A	Domestic	SW¼ SW¼ SEC 17 38N 08E	170
52234A	Domestic	NE¼ NE¼ SEC 22 38N 08E	135
15827A	Domestic	SEC 25 38N 08E	520
32662A	Domestic	NW¼ SE¼ SEC 29 38N 08E	166
43351A	Domestic	SE¼ SE¼ SEC 30 38N 08E	207
15830A	Domestic	SEC 33 38N 08E	310
37962A	Public	SEC 34 38N 08E	1006
12526A	Domestic	NE¼ NW¼ SEC 35 38N 08E	780
31503A	Domestic	· 38N 08E	230
35098A	Not reported	SEC 17 38N 08W	130
49268A	Domestic	NE¼ SW¼ SEC 17 38N 08W	270
03347A	Domestic	NW¼ NW¼ SEC 18 38N 08W	252
33802A	Domestic	SEC 18 38N 08W	252
01045A	Domestic	SE¼ NW¼ SEC 20 38N 08W	200
41919A	Not reported	37N 09E	300
53832A	Domestic	37N 09E	240
53830A	Domestic	37N 09E	184
35103A	Domestic	37N 09E	150
06633A	Domestic	SEC 18 37N 09E	704

TABLE 2

SOLID WASTE MANAGEMENT UNIT/AREA OF CONCERN DESCRIPTIONS

SWMU NUMBER:

1

SWMU NAME:

Former drum storage area

SWMU DESCRIPTION:

The former drum storage area is on the south side of the facility adjacent to the warehouse (Figure 3). Sixteen 55-gallon drums containing waste solvent-and ink-stained rags were accumulated and stored in this room from 1980 to May 1984. The room measures approximately 15 feet by 35 feet. It was originally intended to incinerate these rags using an incinerator (SWMU Number 11) installed in this room. This plan was never implemented, and the incinerator was removed. The drums were disposed in 1984 by the former owner, Georgia-Pacific. The wastes were sent to Chemical Waste Management in Emelle, Alabama using Kies Transport (EPA Identification Number KSD980853246). Silvanus has not used this room for hazardous waste storage since the wastes were removed in 1984. According to the original EPA Hazardous Waste Part A application, this room had a storage capacity of 5,500 gallons (Reference 4).

DATES OF OPERATION:

The room was first used for waste storage in 1980 (Reference 1). Use of the room for storage discontinued in 1984 (Reference 48).

CLOSURE DATE:

A Closure Plan for the facility, which included closure procedures for this storage room, was submitted to MDNR September 1, 1982 (Reference 18). In March 1992, Silvanus Products issued a revised Closure Plan based on MDNR review of the 1982 Closure Plan submitted by Georgia-Pacific (Reference 47) (Appendix F). Final approval of this Closure Plan was granted, with modifications, on July 15, 1992. The Silvanus Closure Plan has not yet been implemented (Reference 67).

WASTES MANAGED:

Cotton rags soaked with cleaning solvents and printer inks (References 4, 32, and 48) identified as EPA waste codes F001, F003, and U002.

RELEASE CONTROLS:

No secondary containment is incorporated into room construction.

RELEASE HISTORY:

There is no record or documentation of material having been released within or from this room (Reference 48).

MIGRATION PATHWAYS:

The primary migration pathway from this SWMU would have been onto the concrete floor and into the air within the facility. A hairline crack in this flooring is noted in the revised Closure Plan (Reference 47). No drains or other outlets are present.

PHOTOGRAPH NOS.:

9, 10.

2

SWMU NAME:

Flammable material storage area

SWMU DESCRIPTION:

This is a 12-foot by 12-foot covered concrete pad located just west of the plant loading dock on the south end of the building. It is surrounded by a chain-link fence which reaches the roof and a lockable gate. Drums containing flammable material as well as waste machine oils are stored in this area (Reference 48).

DATES OF OPERATION:

The area has been in use since it was constructed in 1990 (Reference 57).

CLOSURE DATE:

This pad is currently used.

WASTES MANAGED:

Waste oils from changing the oil in the air compressor twice annually are stored in this area (References 57 and 67). Oils have been accumulated since 1984 and a 55-gallon drum of waste oil has not yet been filled. However, when the drum becomes full, this waste will be handled by Safety-Kleen. Safety-Kleen will be requested to conduct the waste characterization for disposal. This material will most likely be classified as a Missouri-regulated waste oil, waste code D098.

RELEASE CONTROLS:

Drums are kept closed.

RELEASE HISTORY:

There is no record or documentation of material having been released within or from this area (Reference 57).

MIGRATION PATHWAYS:

Material released in this area would migrate via soil and air pathways. Soil migration and possible water migration may be facilitated by a stormwater drainage inlet located four feet south of the storage area.

PHOTOGRAPH NO.:

3

SWMU NAME:

Recyclable scrap lead storage drum

SWMU DESCRIPTION:

This 55-gallon drum is located in the offset printing area of the plant next to the Linotype typesetter machinery (Figure 3). The drum is kept open. Full drums of lead scrap are sent to United American Metals Corporation in Chicago, Illinois for recycling. Waste lead has been recycled since 1984.

DATES OF OPERATION:

1984 to present (References 57, 48).

CLOSURE DATE:

This drum is currently used.

WASTES MANAGED:

Recycled lead scrap. During the past 18 months, Silvanus has recycled 3,460

lbs (Reference 57).

RELEASE CONTROLS:

None.

RELEASE HISTORY:

There is no record or documentation of material having been released within

or from this area (Reference 48).

MIGRATION PATHWAYS:

The primary migration pathway from this SWMU is to the concrete building

floor. No drains or other outlets are located nearby.

PHOTOGRAPH NO.:

4, 5

SWMU NAME:

Satellite collection drums of cotton cleaning rags soaked with solvent and excess ink in each of two printing areas: the offset printing and silk-screen printing areas.

SWMU DESCRIPTION:

The offset printing drum is located in the offset printing area (Figure 3), 20 feet from the north exterior wall and 10 feet from a west interior wall which separates this department from the plant offices. Similarly, the silk-screen drum is located in the silk-screen department, approximately 20 feet from the north exterior wall and 15 feet from the east interior wall which separates this department from the plant offices. At each silk-screen press there are two covered cans for soiled rags as well as a clean solvent can (Photograph 18). The two rag storage container system allows press operators to reuse less soiled rags and store them separately between uses in a five-gallon container (Reference 48). Once the rags become full of ink, they are discarded to the ten-gallon waste container (Reference 48). Excess ink waste produced during ink application to the press is also discarded to the large container (Reference 48). The contents of the five- and 10-gallon cans are transferred to storage in one of the 55-gallon drums in each area (Reference 48). Full drums of waste cleaning rags and excess ink are generated every six weeks and transported and incinerated by Safety-Kleen. According to waste manifests obtained from the facility (Appendix G), two 55-gallon drums containing 822 lbs. of these F003 wastes were accumulated between March 17, 1992 (the date of the previous shipment of these wastes) and April 30, 1992, a period of approximately 6 weeks. Prior to 1992, these drums were not in place, and waste rags and ink were disposed as part of the general refuse wastestream, which was transported by Tutor Refuge Service of Ste. Genevieve and disposed at the Mineral Point Landfill (References 67 and 68). According to facility representatives, prior to the off-site shipment and disposal of wastes with Safety-Kleen, wastes accumulated were small quantity hazardous wastes less than 220 lbs. per month (Reference 67).

DATES OF OPERATION:

1992 to present (Reference 48).

CLOSURE DATE:

These drums are currently used.

WASTES MANAGED:

Cotton rags soaked with cleaning solvents and printer inks, EPA waste code F003 (Reference 48). The Safety-Kleen prequalification evaluation describes this wastestream as a "paste" (Appendix H).

RELEASE CONTROLS:

These drums are kept closed.

RELEASE HISTORY:

There is no record or documentation of material having been released within or from this room (Reference 48).

MIGRATION PATHWAYS:

The primary migration pathway from this SWMU would be to the concrete floor of the room. No drains or other outlets are located nearby.

PHOTOGRAPH NO.:

6

SWMU NAME:

Waste fixer/developer drum

SWMU DESCRIPTION:

Fixer and developer waste solutions are generated in three areas and collected in one 55-gallon drum which is located north of the darkroom along the west wall (Reference 48). Sources of fixer and developer waste include two gallons each of fixer and developer per month from the variotype typesetter in the office area, variable volumes of waste from the darkroom, and variable volumes of waste from the plate developer outside the darkroom. One drum of waste fixer/developer is reportedly generated every six months (Reference 48). Full drums are picked up by and disposed by Safety-Kleen. Until the end of 1991, waste fixer and developer were discharged to the sanitary sewer. Personnel at the POTW indicated that Silvanus did not receive either written of verbal permission for discharge of this wastestream to the sanitary sewer system (Reference 66).

DATES OF OPERATION:

1992 to present.

CLOSURE DATE:

This unit is currently in operation.

WASTES MANAGED:

Up to 55 gallons of waste fixer and developer solutions

RELEASE CONTROLS:

This drum is kept closed.

RELEASE HISTORY:

No releases from this unit are known or suspected to have occurred.

MIGRATION PATHWAYS:

The primary migration pathway would be to the concrete floor. No drains or

other outlets are located nearby.

PHOTOGRAPH NO.:

None.

7, 8

SWMU NAME:

Safety-Kleen parts washers

SWMU DESCRIPTION:

Commercial parts was iers in the printing area and the maintenance area are maintained by Safety-Kleen. Each unit is a steel wash basin on top of a 20gallon steel drum, containing petroleum naphtha. The solvent is changed out and handled by Safety-Kleen every six weeks (Reference 48). Prior to 1992, parts washing wastes were disposed as part of the general refuse wastestream. According to Silvanus representatives, less than 220 lbs. per month of this waste were generated prior to its off-site disposal by Safety-Kleen in 1992 (Reference 67). This wastestream was originally transported by Tutor Refuge Service Company of Ste. Genevieve, Missouri to the Mineral Point Landfill

(References 67 and 68).

DATES OF OPERATION:

1992 to present.

CLOSURE DATE:

This unit is currently in operation.

WASTES MANAGED:

Twenty gallons of waste petroleum naphtha (EPA waste code D001) are

generated per unit.

RELEASE CONTROLS:

These units are kept closed.

RELEASE HISTORY:

No releases from these units are known or suspected to have occurred.

MIGRATION PATHWAYS:

The primary migration pathway would be to the concrete floor. No drains or

other outlets are located nearby.

PHOTOGRAPH NO.:

9

SWMU NAME:

Adhesive spray booth

SWMU DESCRIPTION:

The adhesive spray booth is operated in the sealing area. The adhesives used are nonhazardous hide glues. Air filters in the booth are changed as needed and are disposed as part of the general refuse wastestream. The approximately three-foot by four-foot metal booth is ventilated by a single vent in the top of the booth.

DATES OF OPERATION:

1992 to present.

CLOSURE DATE:

This unit is currently in operation.

WASTES MANAGED:

Used air filters.

RELEASE CONTROLS:

A ventilation system controls release of overspray from the booth.

RELEASE HISTORY:

No releases from this unit are known or suspected to have occurred.

MIGRATION PATHWAYS:

The primary migration pathway would be to the concrete floor. No drains or

other outlets are located nearby.

PHOTOGRAPH NO.:

10

SWMU NAME:

Antiquing spray booth

SWMU DESCRIPTION:

The antiquing spray booth is operated in the sealing area. The metal booth is approximately five feet long by three feet high. In 1990 and 1991 this booth was used for adhesives. Prior to 1990 and currently, the booth is used for staining, referred to as "antiquing".

DATES OF OPERATION:

Unknown to present.

CLOSURE DATE:

This unit is currently in operation.

WASTES MANAGED:

Adhesives (hide glues) and stain overspray.

RELEASE CONTROLS:

A venting system minimizes release of overspray to inside air.

RELEASE HISTORY:

Releases from this unit have not been documented; however, releases to outside air are assumed to have occurred.

MIGRATION PATHWAYS:

Releases from this unit would migrate to outside air.

PHOTOGRAPH NO.:

11

SWMU NAME:

Former Paper Waste Incinerator

SWMU DESCRIPTION:

The Silvanus facility began burning miscellaneous paper wastes in an incinerator formerly along the east wall of the former drum storage area (SWMU Number 1). It was installed approximately 20 years ago and removed from service approximately 10 years ago following complaints from the City of Ste. Genevieve due to nuisance air emissions (Reference 67). It burned paper and cardboard wastes as a rate of approximately ten 55-gallon drums per day.

DATES OF OPERATION:

Approximately 1973 to 1983 (Reference 67).

CLOSURE DATE:

Not applicable.

WASTES MANAGED:

Nonhazardous paper wastes (Reference 67).

RELEASE CONTROLS:

None.

RELEASE HISTORY:

As discussed above, the City of Ste. Genevieve complained about the emissions from the incinerator and, thus, Silvanus ceased operation of the unit.

MIGRATION PATHWAYS:

Releases of incompletely combusted paper materials from this unit would allow for the migration of nuisance pollutants to outside air.

PHOTOGRAPH NO.:

None.

12

SWMU NAME:

General refuse dumpster

SWMU DESCRIPTION:

A six-yard refuse dumpster is at the south end of the facility near the loading dock. Tutor Refuge Service Company of Ste. Genevieve, Missouri picks up the waste from the dumpster five to seven times per week. This general refuse was formerly landfilled at the Mineral Point Landfill until it was closed on May 31, 1993. These wastes are now landfilled in DeSoto, Illinois

(Reference 68).

DATES OF OPERATION:

Unknown to present.

CLOSURE DATE:

Not applicable.

WASTES MANAGED:

General refuse.

RELEASE CONTROLS:

None.

RELEASE HISTORY:

There is no record or documentation of material having been released from

this dumpster (Reference 48).

MIGRATION PATHWAYS:

Releases of general refuse would be spilled onto the gravel loading dock area.

PHOTOGRAPH NO.:

AOC:

A

AOC NAME:

Air compressor oil discharge

AOC DESCRIPTION:

The blow-off valve for the air compressor is located along the west side of the building. Due to intermittent problems with an oil leak into the air tank, oil has been mixed in with the condensation released from the blow-off valve. This has resulted in a small area of oil contamination of the soil in the vicinity of the valve.

DATES OF OPERATION:

Unknown to present.

CLOSURE DATE:

This valve is currently in operation.

WASTES MANAGED:

Approximately one cubic yard of oil-contaminated soil.

RELEASE CONTROLS:

The oil leak has been repeatedly fixed, most recently since the VSI, according

to facility personnel.

RELEASE HISTORY:

Described above

MIGRATION PATHWAYS:

Oil contamination has migrated to soil and could further migrate to

groundwater.

PHOTOGRAPH NO.:

8.

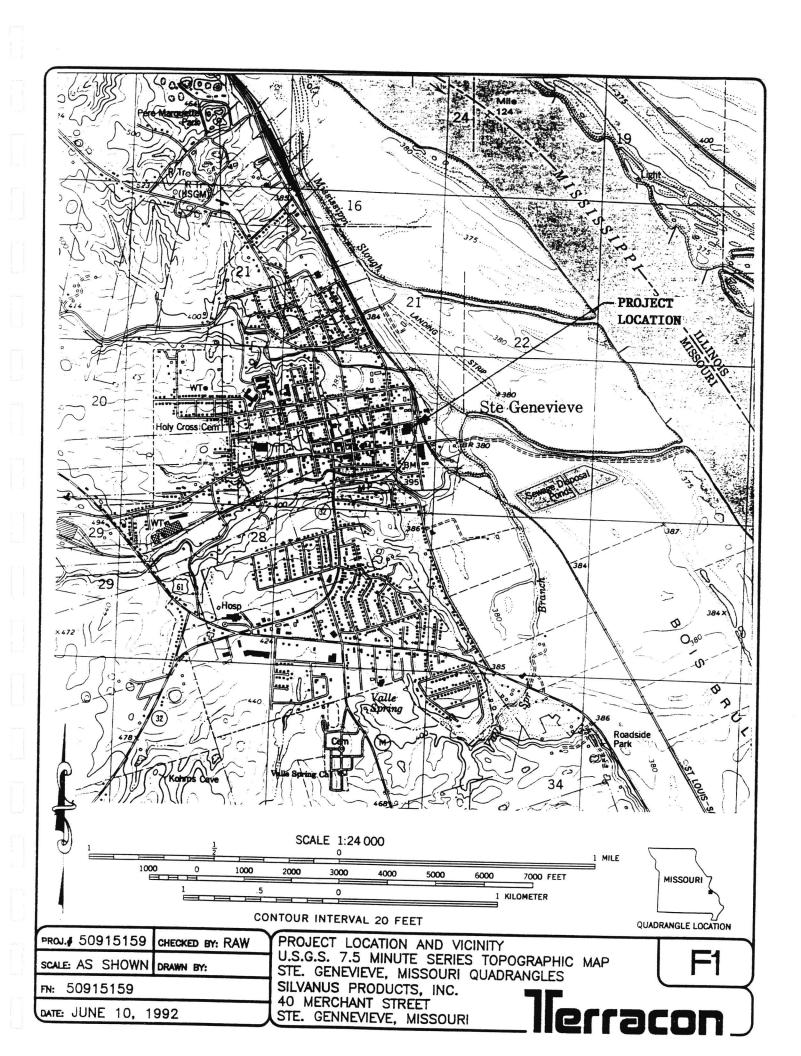
TABLE 3

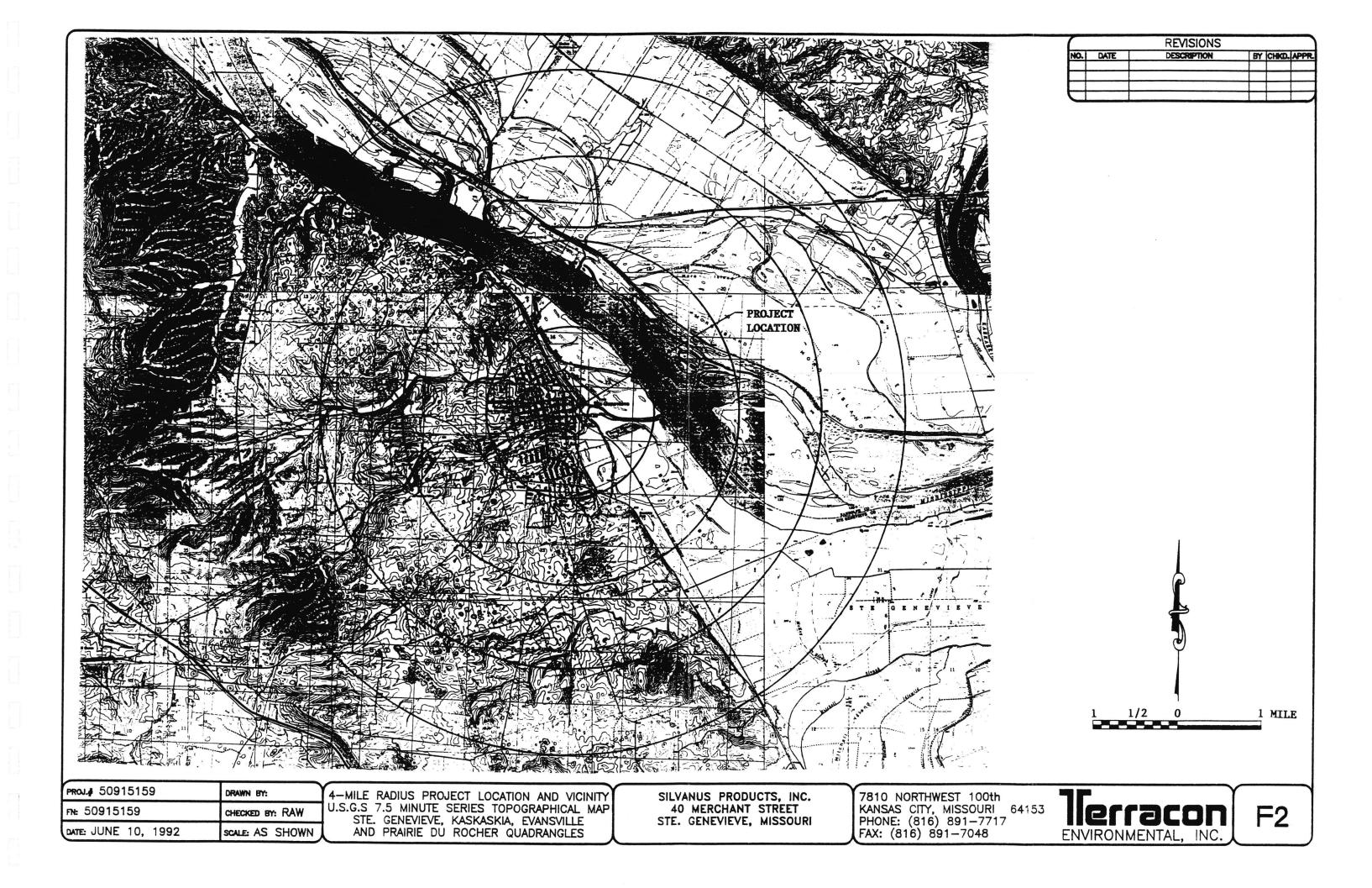
SWMU/AOC IDENTIFICATION SUMMARY

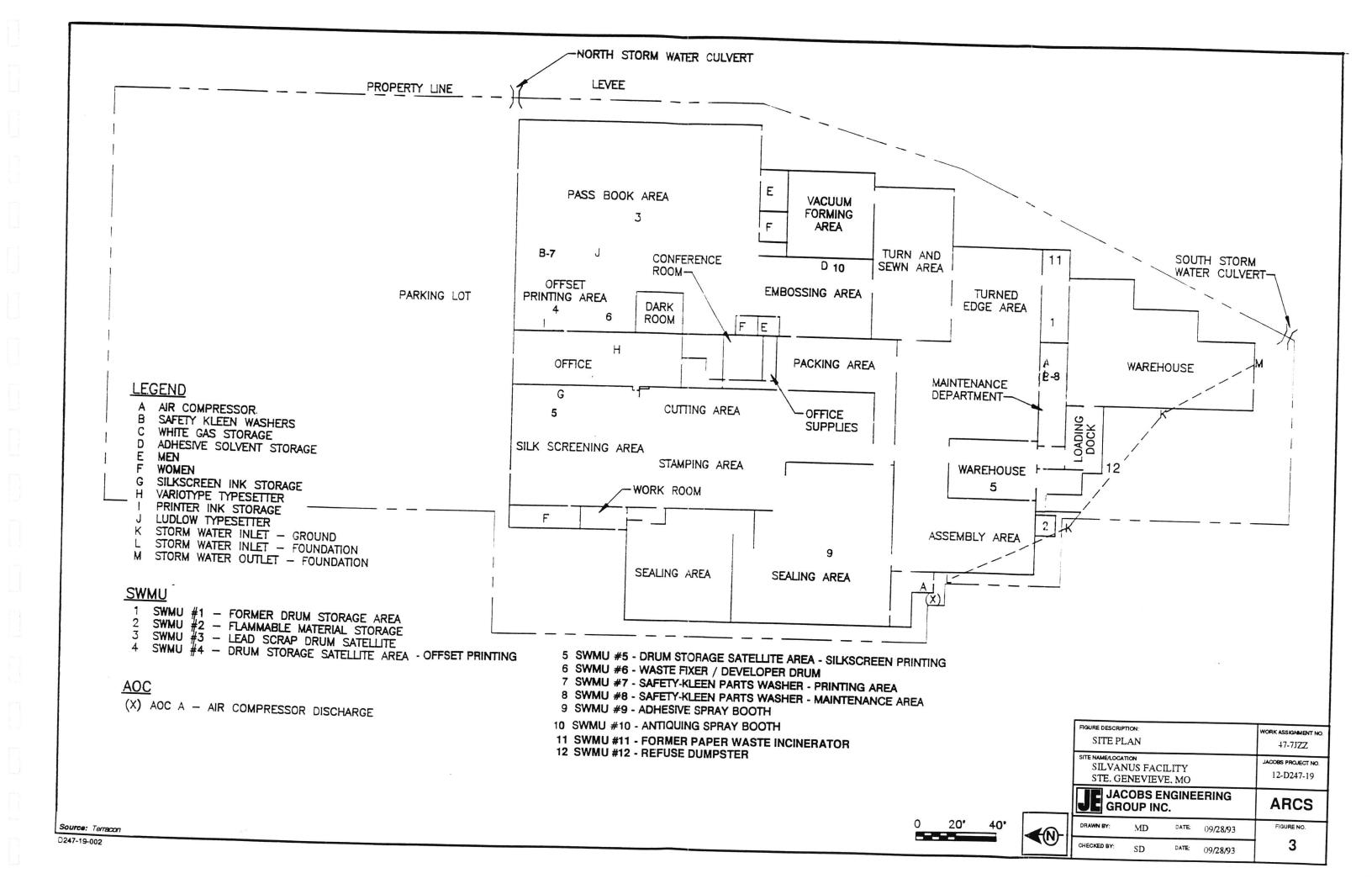
Silvanus Products, Incorporated Ste. Genevieve, Missouri EPA I.D. MOD092351642

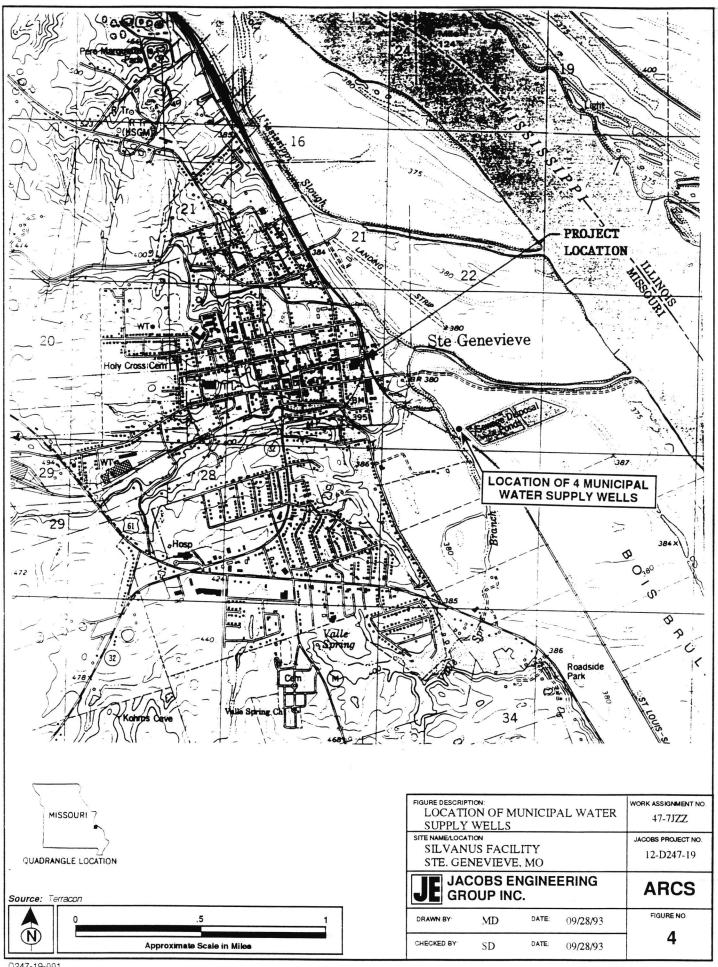
SWMU/AOC Number	Name of Unit	Years Operated	Wastes Managed	Evidence of Release
SWMU 1	Former Drum Storage Room	4	Waste rags with printers ink and solvents (F001, F003, and U002)	None observed or documented
SWMU 2	Flammable Material Storage Area	2	Waste oil from facility's air compressor (probably Missouri waste code D098)	None observed or documented
SWMU 3	Recyclable Scrap Lead Storage Drum	10	Lead waste to be recycled	None observed or documented
SWMU 4	Offset Printing Satellite Collection Drum	1	Waste rags with printer's ink and solvents (F003)	None observed or documented
SWMU 5	Silk-screen Printing Satellite Collection Drum	1	Waste rags with printer's ink and solvents (F003)	None observed or documented
SWMU 6	Waste Fixer/Developer Drum	1	Waste fixer/developer (D001)	These wastes were discharged to the sanitary sewer without prior permission of the local POTW (Ref. 66)
SWMU 7, 8	Safety-Kleen Parts Washers	1	Petroleum naphtha (D001)	None observed or documented
SWMU 9	Adhesive Spray Booth	1	Used air filters (nonhazardous)	None observed or documented
SWMU 10	Antiquing Spray Booth	Unknown	Adhesives and stain overspray (nonhazardous)	None observed or documented
SWMU 11	Former Paper Waste Incinerator	10	Paper and cardboard wastes (nonhazardous)	The City of Ste. Genevieve complained about nuissance air emissions from this unit (Ref. 48)
SWMU 12	Refuse Dumpster	Unknown	General refuse	None observed or documented
AOC A	Air Compressor Oil Discharge	Unknown	Oil-contaminated soil	Oil contamination of soil observed

FIGURES









APPENDIX A

Well Logs

DRILLER

FLYNN DRILLING SERVICES

TROY MO, 63379

ENGINEER

HUDWALKER AND ASSOC.

ANALYSIS BY BILL SCHAFER
DATE February 26, 1992

JOB NAME TEST HOLE #1

LOCATION STE GENEVIEVE

MO.

JOHNSON I.D. NUMBER 92057

SAMPLE SENT IN BY FLYNN DRILLING CO.

SAND ANALYSIS REPORT



Johnson Filtration Systems Inc.

World Leader through Talent & Technology ™

P.O. Box 64118 • St. Paul, Minnesota 55164-0118 612-636-3900 • 1-800-VEE-WIRE • FAX 612-636-3171

X SILT TO EINE GRAVEL 9.92 3/81N. OR GREATER.	I DATE I	1 Ect Car y 20, 1532																								
DESIREO VIELD 75 B WELL APPLICATION RECOMMENDATION HATTERIALS 246 GRAVEL PROK. SETTING: 64 - 84 · 81 TO COMMENTS RE: 74 - 81 TO	10	U.S. STANDARD SIEVE NUMBERS											TEST HOLE DATA			WELL DATA										
ORALING METHOD AUGER ORALING FLUID ORACING FLUID ORACI		1-1	<u> </u>	ا		-1	1-1			·	٠,٠	7	1-	T		1	-1	$_{\rm D}$	DIAME	ETER	0.00	8		CASING	DIAMETER B	.012
DRILLING METHOD RUGGIR GLUID GEOPHYSICAL LOGS STATIC WATER LEVEL 28 STATIC WATER LEVEL 29 STATIC	24					ļ		Ш	DEPT	н В	9			DESIRED	YIELD 750	
DESIGN RECOMMENDATION GEOPHYSICAL LOGS STATIC WATER LEVEL 28 COMMENTS I RE: 49-56 3 RE: 64-71 4 RE: 74-81 COMMENTS I RE: 49-56 3 RE: 64-71 4 RE: 74-81 COMMENTS I RE: 74-81 COME			<u> </u>						***************************************		1	_						Ш			THOD			WELL AP	PLICATION	
GEOPHYSICAL LOGS #ECCHHEND: #68 SLOT WITH SIMPSON HATERIELS 046 GRAVEL PACK. SETTING: 64'-84' COMMENTS RE: 74-8 RE:			1 11		li			1 1			11	i	.]	1			-				UID			DESIGN	RECOMME	NDATIONS
SETTING: 64 '-84' COMMENTS RE: 49-56 RE: 64-71 RE: 74-81	VINED (NED					-					- -						-		GEOP	HYSIC	AL LOG	ıs		RECOMME *60 SLO	ND: T VITH SI	MPSON
SCHEEN RECOMMENDATION SCHE	SC SC																				A LEVI	EL		PACK. SETTING		SRAVEL
2 10 28 30 48 50 60 78 88 98 100 118 120 138 148 158 168 178 188 IN B 1 2 3 4 MM SLOT OPENING AND GRAIN SIZE, IN THOUSANDTHS OF AN INCH AND MILLIMETERS COMBINED SAMPLE DESCRIPTION Inches 167 1723 094 1068 119 840 590 420 297 210 149 074 053 101 001 001 001 001 001 001 001 001 00	₹ 4C		A-H-		-					ļ	+					 	-	Ηŀ		CO	MME	NTS		1		
2 10 28 30 48 50 60 78 88 98 100 118 120 138 148 158 168 178 188 IN B 1 2 3 4 MM SLOT OPENING AND GRAIN SIZE, IN THOUSANDTHS OF AN INCH AND MILLIMETERS COMBINED SAMPLE DESCRIPTION Inches 167 1723 094 1068 119 840 590 420 297 210 149 074 053 101 001 001 001 001 001 001 001 001 00	13 ! !!!	1 M M	1 1				*				11	ţ		- 1					RE:	49-5	6			1		
2 10 28 30 48 50 60 78 88 98 100 118 120 138 148 158 168 178 188 IN B 1 2 3 4 MM SLOT OPENING AND GRAIN SIZE, IN THOUSANDTHS OF AN INCH AND MILLIMETERS COMBINED SAMPLE DESCRIPTION Inches 167 1723 094 1068 119 840 590 420 297 210 149 074 053 101 001 001 001 001 001 001 001 001 00	§ 31	1-	-T-	-	-	+		1	-								+							ı		
0 10 20 30 40 50 60 70 80 90 100 110 120 30 140 150 160 170 180 1N			1 11	N				1 1			11	1	-+					1 I F	RE:	74-8)					
## 10 10 20 30 40 50 60 70 80 90 100 110 120 330 140 150 160 170 180 IN ### 1	- 26	1-11	P-1-1-		1	:[-	1			+	_;	-			-	+	KΙ								
## 10 10 20 30 40 50 60 70 80 90 100 110 120 330 140 150 160 170 180 IN ### 1	1 1 1111	1	<u> </u>				\downarrow				11															
S	1	-				+												HI						1		
S				1	,	1					1															
S	0 10	20 30	IL.I 40 50	IL	-1 7Ø	.I	10	100 11	0 1	20	.14 }3Ø	148	158	16	0 1	70	180	M								
The sand Coarse Some S	0		1			2		,	3					4		,		ММ								
The sand Coarse Sand Very line grave Screen Recommendation	s	med SLO	T OPENING AN	ND GRAIN	SIZE, IN T	HOUSAND	THS OF	AN INCH A	ND MIL	LIMETE	RS															
Total Combined C	4 1 mm	h									\dashv						SCREEN	RECOMME	NDATIONS							
SAMPLE DESCRIPTION Inches DEPTHS 1.87 1.23 0.94 0.66 0.47 0.033 0.23 0.16 0.12 0.08 0.06 0.03 0.02 TOTAL	very li	fine sand sand								207	T 210	140	074	053	Τ	DIAMETER	ì									
4) 3 SILT TO CORRSE SAND S9-61 D SILT TO VERY CORRSE SAND S4 5.4 6.9 8.4 18.8 13.5 13.8 17.6 36.4 75.9 93.1 261.8	COMBINED SAMPLE	PHY	SICAL SAMP	LE DESC	CRIPTION			1								.023	.016	.012	.008	.006	.003	.002		SLOT	LENGTH	CETTING
39-81 SILT TO VERY CORRSE SAND S1LT TO VERY CORRSE SAND S1	DEPTHS							U.S. 3		4	6	8	12	16	20	1	1	50	1	100	200	270		3501	LENGIN	SETTING
34-66 A SILT TO VERY CORRSE SAND \$ 8.7 2.5 5.3 9.6 16.8 28.5 42.3 53.7 64.8 85.8 96.8 281.8	() . 1	S SILT TO COMPSE	SANU						NEO	3.4	5.4	6.9	6.1	18.6	11.5	13.6	17.6	36.4	75.9	93.1			261.8			
G4-66 A SILT TO VERY CORRSE SAND 8.7 2.5 5.3 9.6 16.8 28.5 42.3 53.7 64.8 85.8 96.8 281.8	39-61	SILT TO VERY COORSE SOND						RETAI	1.1	1.8	3,6	6.1	9.6	16.4	28.5	47.8	73.7	89.7	33.2			281.8				
X SILT TO EINE GROVEL 9.92 3/8IN. OR GREATER. 5 2.2 5.2 33.4 72.2 32.5 53.6 73.2 82.4 89.8 84.8 96.8 535.8 34-86 A SILT TO EINE GROVEL 2.32 3/6IN. OR GREATER. 318.3 72.8 34.4 40.8 44.4 49.8 56.7 55.6 75.2 82.2 97.4 278.8	64~66	Enter it in a least term of the control of the cont						VE %														281.8				
24-8G A SILT 10 EINE GRAVEL 232 3/6IN, CR GREATER, 278.8 34.4 40.8 44.4 49.3 56.7 65.6 75.2 82.2 87.4 278.8	74-TB	X SILT TO EINE CRAVEL 9.92 3/8IN. OR CREATER.						Ę	2.2	5.2	33.4	22.2	32.5	53.6	71.2	82.4	89.8	94.8	96.8			\$35.0		1		
	54-86	A SILT TO RINE GRAVEL 232 3/8IN. OR GREATER.					- 3	18.)	27.8	34, 4	4D. B	44.4	49.3	56.1	65.6	15.2	82.2	37.4			278.8					

SO MANY CONSIDERATIONS ENTER INTO THE MAKING OF A GOOD WELL THAT, WHILE WE BELIEVE SLOT SIZES FURNISHED OR RECOMMENDED FROM SAND SAMPLES ARE CORRECT WE ASSUME NO RESPONSIBILITY FOR THE SUCCESSFUL OPERATION OF JOHNSON WELL SCREEMS.

MISSOURI BUREAU OF GEOLOGY & MINES, ROLLA, MO. MO SURVEY NO OWNER Citizens Electric Corp. 13471 FARM WELL MS COUNTY Ste. Genevieve DRILLER Jungmann Bros. 38N 9E DATE 1955? ELEVATION PRODUCTION 1000 GPM, 14' DD SAMPLES STUDIED
Knight 5/4/55 REMARKS Samples caught every 2 feet. 16" csg SWL 40'. Alluvium 100 VVV Gray shale Siltstone 150 VVI Brown shale * Sandstone **建** 200

.

STATE OF MISSOURI

GEOLOGICAL SURVEY AND WATER RECOURCES LOG NO. OWNER City of Ste. Genevieve 24111 WELL NO. COUNTY FARM Ste. Genevieve **T** 38 DRILLER Juneman Bros. Drlg. Inc. DATE 8/20/65 PROD. ELEV. INDEX SHEET NO. LOGGED BY 8/65 REMARKS Soil & Loess Alluvium 100 -200 -Loess w/color Siltstone or silt. Sandstone of sand. Pea Gravel Granules 800 -

APPENDIX B

Photo Log

Photo #1

Photographer: RAW

Date: 5-19-92

Direction: North

(facing)

Description: South end of Building (Loading Dock).

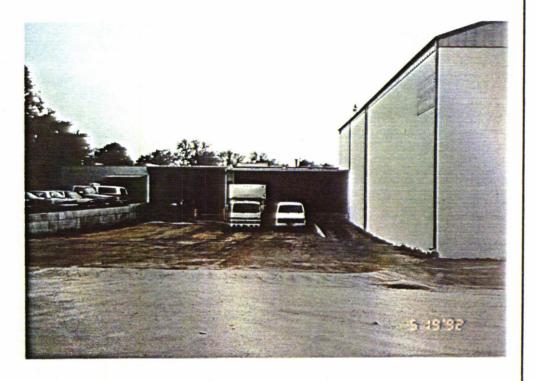


Photo #2

Photographer: RAW

Date: 5-19-92

Direction: East

(facing)

Description: South storm water culvert through east levee.

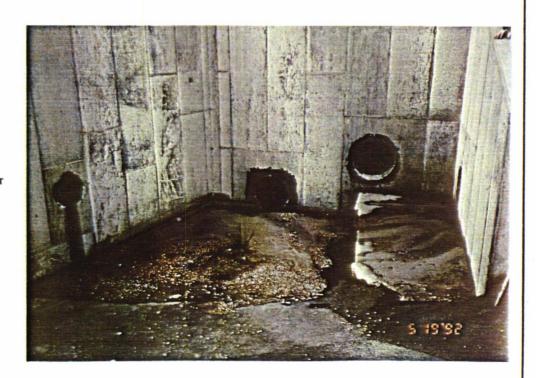




Photo #3

Photographer: RAW

Date: 5-19-92

Direction: Northeast

(facing)

Description: East border levee.

Silvanus Products on left.

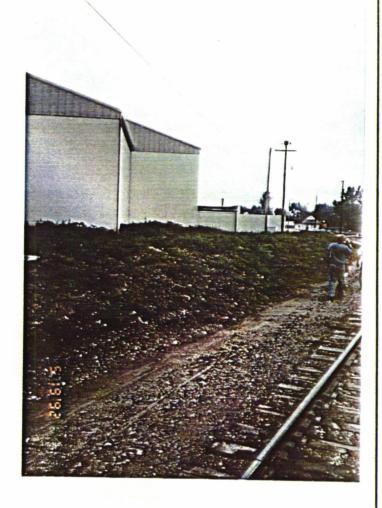


Photo #4

Photographer: RAW

Date: 5-19-92

Direction: East

(facing)

Description: North storm water

culvert through east levee.

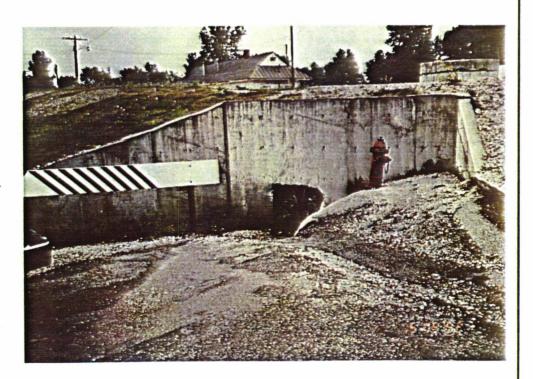




Photo #5

Photographer: RAW

Date: 5-19-92

Direction: South

(facing)

Description: North end of Silvanus Products plant and

parking lot.

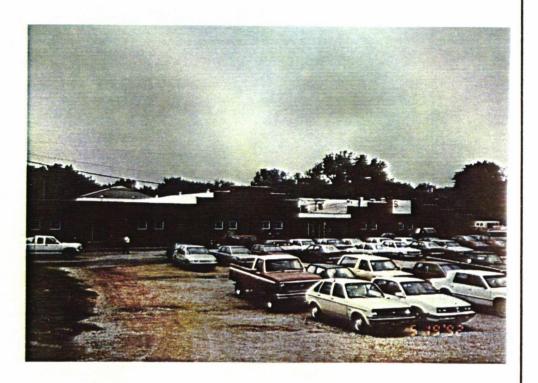


Photo #6

Photographer: RAW

Date: 5-19-92

Direction: South

(facing)

Description: Western boundary

of subject site.

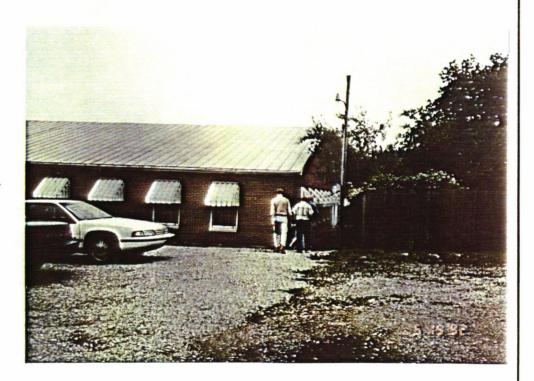




Photo #7

Photographer: RAW

Date: 5-19-92

Direction: North

(facing)

Description: Flammable material storage area (SMWU #2). Note: Storm water drain in lower left hand corner. Note:

No containment.

Photo #8

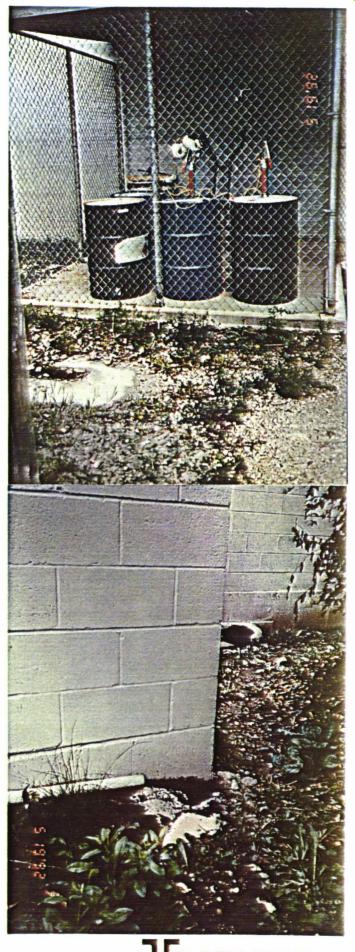
Photographer: RAW

Date: 5-19-92

Direction: East

(facing)

Description: Air compressor oil discharge along west side of building. Note: storm water drainage on right and downgradient of discharge (AOC-A).



lerracon

Photo #9

Photographer: RAW

Date: 5-19-92

Direction: N/A

Description: Original drum storage room (SMWU #1).

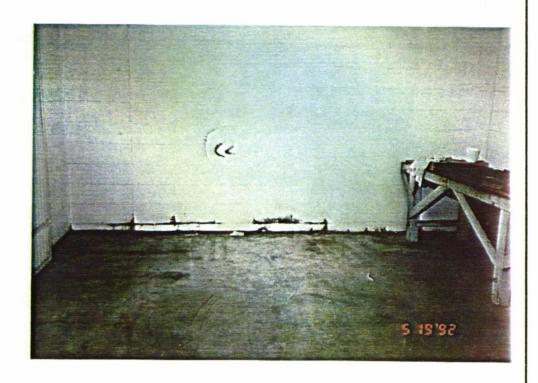


Photo #10

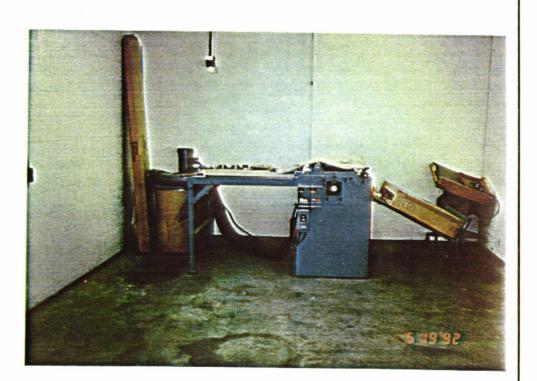
Photographer: RAW

Date: 5-19-92

Direction: N/A

(facing)

Description: Original drum storage room (SMWU #1).



Terracon

Photo #11

Photographer: RAW

Date: 5-19-92

Direction: N/A

Description: Thirty pound lead ingots used in typesetting

operation.

Photo #12

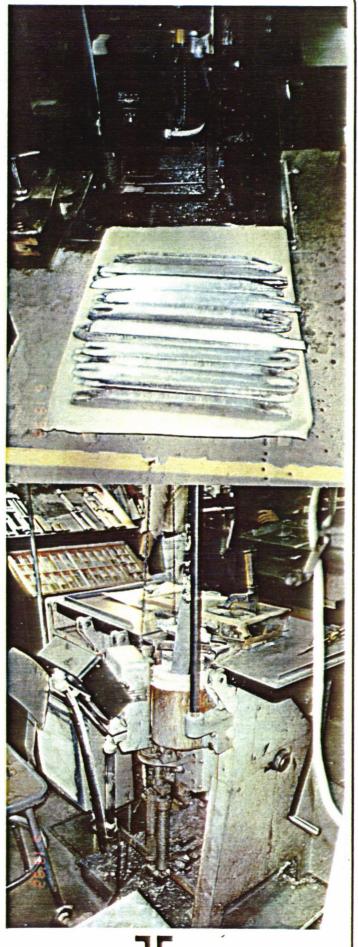
Photographer: RAW

Date: 5-19-92

Direction: N/A

Description: Ludlow typesetter used to make lettering for printing presses. Note: lead

waste on floor.



Terracon

Photo #13

Photographer: RAW

Date: 5-19-92

Direction: N/A

Description: Lead waste drum used to collect recyclable lead (SMWU #3).

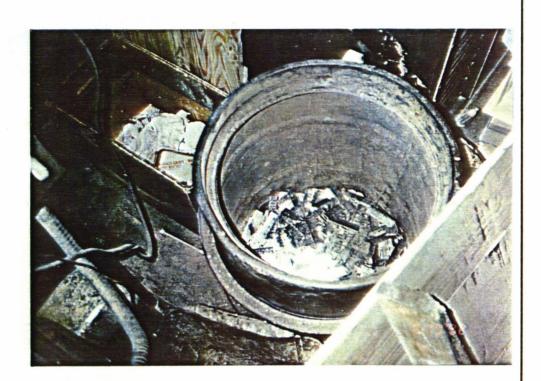


Photo #14

Photographer: RAW

Date: 5-19-92

Direction: N/A

Description: Silk screen ink storage. Note: small flammable material cabinet under pilot lit gas furnace. No outside vent for cabinet,

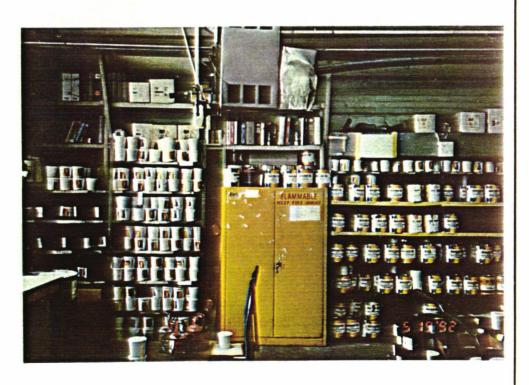




Photo #15

Photographer: RAW

Date: 5-19-92

Direction: N/A

Description: Flammable material storage cabinet in silk screen area (see Photo #14)

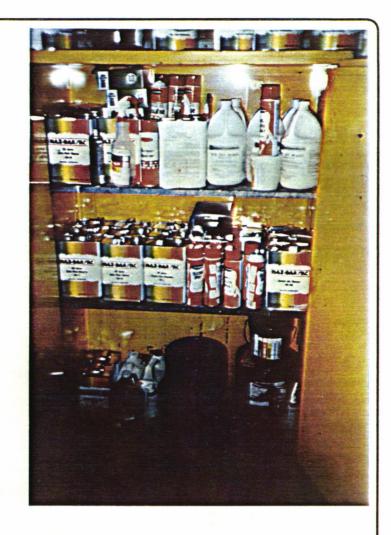


Photo #16

Photographer: RAW

Date: 5-19-92

Direction: N/A

Description: Small individual station canisters for distribution of flammable solvents used in

silk screen area.

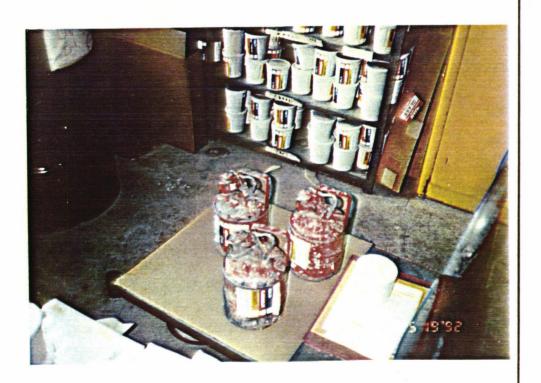




Photo #17

Photographer: RAW

Date: 5-19-92

Direction: N/A

Description: Silk screen ink mixing/preparation table.
Satellite silk screen drum (SMWU #4) used to store soiled rags is nearby (less than 10 feet).



Photo #18

Photographer: RAW

Date: 5-19-92

Direction: N/A

Description: Individual station canisters to hold soiled rags. Contents of large canister transferred to satellite silk screen drum nightly. Contents of smaller canister reused until heavily soiled; then transferred to larger canister for disposal. Waste ink is also disposed of into larger canister.

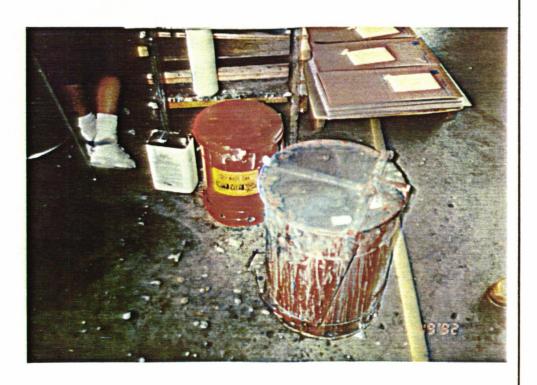




Photo #19

Photographer: RAW

Date: 5-19-92

Direction: N/A

Description: Silk screen wash area, wastewater is discharged

directly to POTW.

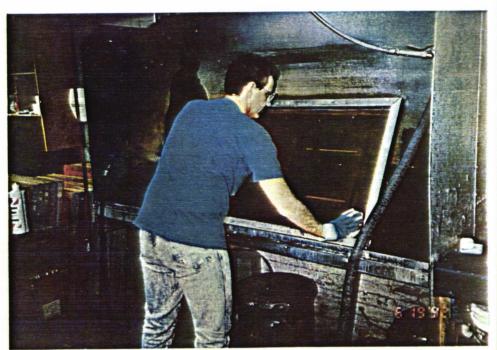


Photo #20

Photographer: RAW

Date: 5-19-92

Direction: N/A

Description: Offset printing ink storage and preparation table.

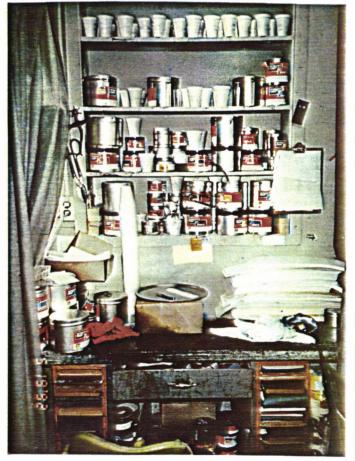


Photo #21

Photographer: RAW

Date: 5-19-92

Direction: N/A

Description: Additional offset

printer ink storage.

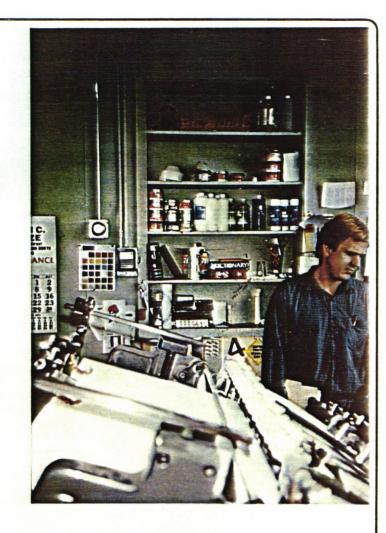


Photo #22

Photographer: RAW

Date: 5-19-92

Direction: N/A

Description: Typical offset printer. Note: wastewater and individual solvent dispenser.

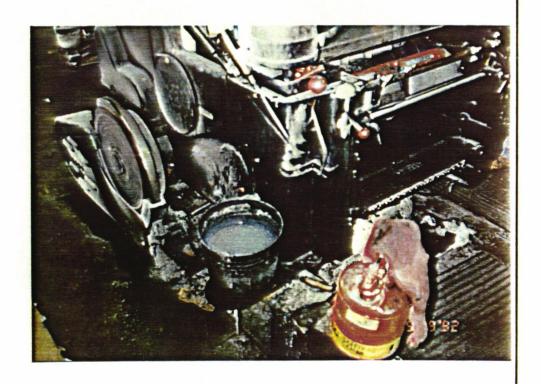




Photo #23

Photographer: RAW

Date: 5-19-92

Direction: N/A

Description: Satellite drum located in offset printing area. Similar drum located in silk screening department (SWMU #4).

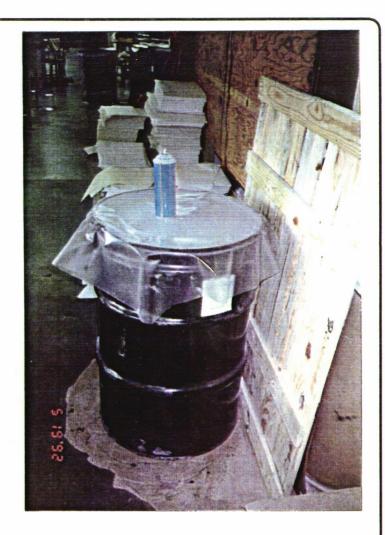


Photo #24

Photographer: RAW

Date: 5-19-92

Direction: N/A

Description: Safety Kleen parts washer located in offset printing department. Similar station located in building maintenance room (SWMU #7).

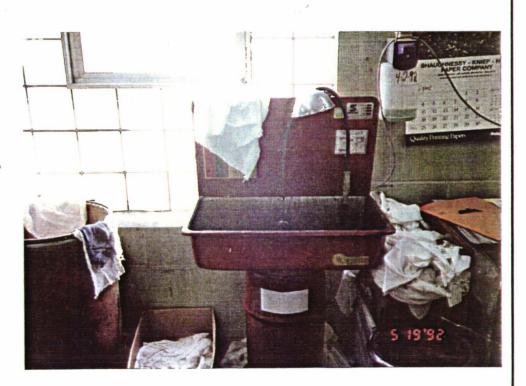




Photo #25

Photographer: RAW

Date: 5-19-92

Direction: N/A

Description: Type-wash storage. Material used in offset

printing department

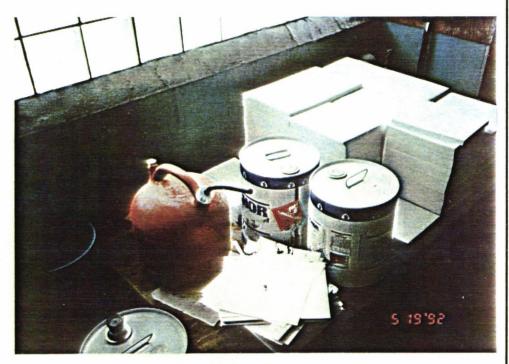


Photo #26

Photographer: RAW

Date: 5-19-92

Direction: N/A

Description: Cabinet storage area adjacent to adhesive solvent storage. Cabinet is not

fire-proof rated.

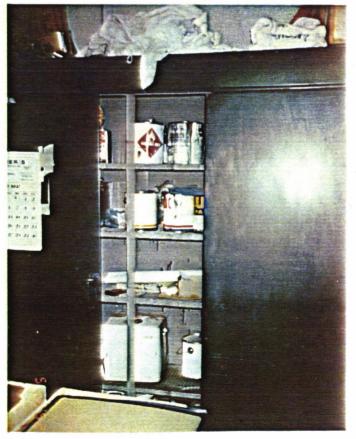




Photo #27

Photographer: RAW

Date: 5-19-92

Direction: N/A

Description: Flammable adhesive storage area.



Photo #28

Photographer: RAW

Date: 5-19-92

Direction: N/A

Description: White gas storage

area,





Photo #29

Photographer: RAW

Date: 5-19-92

Direction: N/A

Description: Adhesive spray booth (SWMU #9).

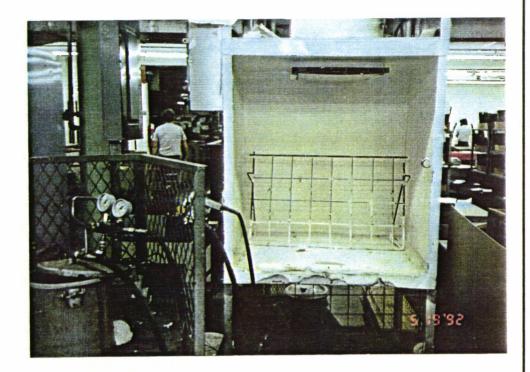


Photo #30

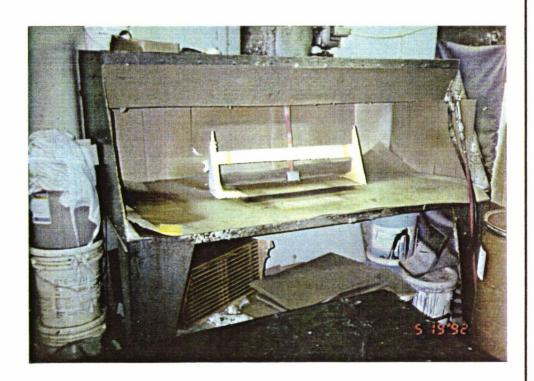
Photographer: RAW

Date: 5-19-92

Direction: N/A

Description: Antiquing spray

booth (SWMU #10).







Missouri Department of Natural Resources 1989 Compliance Evaluation Inspection Report

RESOURCE CONSERVATION AND RECOVERY ACT AND MISSOURI HAZARDOUS WASTE MANAGEMENT LAW COMPLIANCE EVALUATION INSPECTION REPORT

FACILITY

3ilvanus Products Incorporated 40 Merchant Street 5te. Genevieve, MO 63670 (314) 883-3521

EPA ID: None MO Generator: None Former Georgia-Pacific ID MOD092351642 has been assigned

PARTICIPANTS

Department of Natural Resources

Mr. Albert R. Wampler Environmental Engineer II Southeast Regional Office

Silvanus Products Incorporated

Mr. Urban Klein Vice President, Sales Mgr.

INTRODUCTION

On December 20, 1989, Albert R. Wampler, representing the Missouri Department of Natural Resources, Southeast Regional Office, conducted an inspection of the Silvanus Products, Incorporated facility located in Ste. Genevieve, Missouri. The inspection was conducted to determine compliance of the facility with the Resource Conservation and Recovery Act, the Missouri Hazardous Waste Management Law, and applicable state and federal regulations promulgated thereunder. Authority to conduct such inspections has been granted under sections 260.375(9) and 260.377, RSMo.

FACILITY DESCRIPTION

Silvanus Products, Incorporated has been classified by the Department of Natural Resources as being a treatment, storage and disposal facility. The facility is located in downtown Ste. Genevieve. The facility has been at their present location since the formation of the Silvanus Products, Incorporated facility in May of 1984. Before this date, the building housed the Georgia-Pacific Corporation facility processes. During May 1984 a group of employees and investors purchased the subject facility Georgia-Pacific, Ste. Genevieve, changing the name to Silvanus Products, Incorporated.

Silvanus Products, Incorporated manufactures loose leaf vinyl products, decorative and plain such as notebook binders, menu covers,

and checkbook covers. Also, some paper products and bank books for recording loan payments, are manufactured.

The facility generates one (1) waste stream that being ink cleaning rags and a few solvent cleaning rags, which are generated in a quantity less than 220 pounds per month. The rags are generated at the silk screening and off-set printing operations where they are used for cleaning the equipment. Since these rags are not generated in the amount of a quantity of hazardous waste requiring registration, they are transported to the sanitary landfill for disposal. The facility incorporates a very small amount of ignitable solvent and ink, used for printing on the vinyl covers as raw materials. Due to the fact Silvanus generates only the above mentioned waste, the appropriate classification would be a conditionally exempt small quantity generator.

UNSATISFACTORY FEATURES

The following unsatisfactory features list the regulatory or statutory provisions which Silvanus Products, Incorporated was in violation of at the time of the inspection. All 40 CFR regulations cited have been adopted by reference in the Missouri Hazardous Wasteregulations.

Silvanus Products, Incorporated has not submitted documentation to the Department of Natural Resources showing that the facility status changed from the treatment, storage and disposal classification held by the former facility Georgia-Pacific. (Although the inspection results revealed that Silvanus Products, Incorporated is now operating as a conditionally exempt small quantity generator, from a departmental view point, the facility is in violation of all major facility requirements concerning interim status, TSD regulations). A waste analysis plan, closure plan, personnel training program, contingency plan etc., as stated in 40 CFR 265, is required. No facility closure plan has been approved and implemented. No Part B application has been filed to obtain a TSD facility permit.

COMMENTS

Mr. Urban Klein, Vice President, Sales Manager, acted as the facility representative during the inspection. Appropriate credentials were presented by the inspector and an explanation given as to the purpose of and the authority to conduct the inspection. Mr. Klein was informed of the facility's rights to confidentiality. An explanation was given during the initial conference as to how the inspection

would be conducted. Mr. Klein was informed that possible photographs and copies of documentation would be required.

A request was made for a visual inspection of the facility to determine which waste streams were generated, and at what point in the manufacturing process the wastes were generated. It was observed that vinyl was received at the facility in large quantities and colors. The vinyl was cut to size, depending upon the product to be manufactured. Once cut to size and formed, the vinyl was printed with appropriate letters or business names and stocked for shipment. Printing and silk screening process equipment require cleaning periodically, and these were noted as being the only waste generation points. A few rags were observed in containers near these points. There was no liquid waste observed anywhere in the building. Some scrap vinyl and paper products were generated, also being transported to the landfill for disposal. The facility did not have any hazardous waste storage area designated, due to nature of wastes generated.

After the facility visual inspection, Mr. Klein and the inspector returned to his office. Since no hazardous waste had been manifested off-site since June 21, 1984, the facility had no records to be examined. Mr. Klein was informed by the inspector that the facility was operating as an exempt small quantity generator at the present time. Mr. Klein was also informed that should the facility begin generation of wastes or accumulation of wastes greater than 220 lbs in any month, generator registration would become required along with compliance with 40 CFR Part 262. Mr. Klein was informed that departmental records indicated that Silvanus Products, Incorporated was classified as a treatment, storage, and disposal facility, and that it would be their facility's responsibility to resolve this matter, so as to assure proper classification. To resolve this issue, documentation of implementation of closure must be submitted and department approval of the closure obtained. Department records of Georgia-Pacific's TSD notification indicate several 55 gallon containers were stored at the site and the plant layout diagram and supporting documentation indicated an on-site incinerator. drum storage and the incinerator must be resolved to return to compliance.

RECOMMENDATIONS

The recommendations listed below are for your facility's use as guidelines for implementation of corrective actions. It will be the responsibility of Silvanus Products, Incorporated to implement specific corrective actions and satisfactorily document them to

demonstrate a return to compliance with the hazardous waste laws and regulations.

We recommend Silvanus Products, Incorporated secure proper documentation and submit to the Department of Natural Resources, copies of such documentation, which will support that Silvanus Products, Incorporated is not and should not be classified as a treatment, storage, and disposal facility. Copies of documentation should be sent to both the Department of Natural Resources, Waste Management Program, Attn: Arthur Groner, Hazardous Waste Enforcement, P.O. Box 176, Jefferson City, MO 65102 and Department of Natural Resources. Regional Administrator, Southeast Regional Office, P.O. Box 1420, Poplar Bluff, MO 63901. Documentation of the TSD facility closure for the container storage and the incinerator interim status facilities should be submitted for Department review and approval to Mr. Dan Tschirgi, P.O. Box 176, Jefferson City, MO 65102.

ADDITIONAL COMMENTS

From a complete review of inspections of the Silvanus Products, Incorporated facility, since their purchase of the Ste. Genevieve Georgia-Pacific Company operations, in May of 1984, it is apparent that Silvanus is not a treatment, storage, or disposal facility. Georgia-Pacific did retain "generator" and "interim status TSD" ID numbers. Georgia-Pacific had registered their ink contaminated and solvent contaminated rags as a hazardous waste in April of 1983. At the time of the purchase and formation of Silvanus, in May 1984, and oil soaked rags. These drums were transported off the site by Kies Transport of Kansas City, KS (KS D980853246) to Chemical Waste Management, Incorporated, Emelle, Alabama facility (AL D000622464) on June 21, 1984. Georgia-Pacific was listed as the generator on the manifest. This was during the transition.

A letter dated May 25, 1984, to Director, David E. Bedan, Waste Management Program, from Mr. Saul J. Furstein, Senior Environmental Engineer for Georgia-Pacific, advised the Department of Natural Resources of the purchase of the subject facility, Georgia-Pacific, by Silvanus Products, Incorporated. In that letter, Mr. Furstein requested that the generator number and interim status be transferred to the Silvanus facility. Mr. Phil McKersie was said to be the new facility contact person. On May 29, 1984 Mr. Phil McKersie, President, of the newly formed facility contacted Mr. David E. Bedan, Director, Waste Management Program, and informed his office that Silvanus would not be generating or storing hazardous waste as

outlined by RCRA regulations, and it would not be necessary to transfer the ID numbers. Also, it was stated that should the ID numbers already be transferred, that they be deleted. A copy of the original notification of hazardous waste registration was found in this office's files for Georgia-Pacific stamped "DELETED", ID number There is no record on file showing that Silvanus Products, Incorporated registered as a hazardous waste generator. This would be substantiated by the information contained in Mr. Phil McKersie's letter dated May 29, 1984. Also, it was found that Georgia-Pacific submitted a closure plan in September of 1982, for the Ste. Genevieve facility. In a letter to Mr. Phillip McKersie, of the Georgia-Pacific Corporation, dated March 30, 1984 from Wolfgang A. Scheucher, Waste Management Program, a request was made for additional information concerning the "Closure Plan Cost Review". An amended closure plan was requested on that date, to be submitted by Georgia-Pacific, within sixty days. No further correspondence was noted concerning this matter.

From information gathered from the Southeast Regional Office files, it is evident that the Silvanus Product, Incorporated facility was formed as a separate entity from Georgia-Pacific. Silvanus Products, Incorporated did not register and did not expect to generate greater than 220 pounds of hazardous wastes. The results of previous RCRA inspections of Silvanus and this most recent inspection, clearly demonstrates that Silvanus Products; Incorporated is not a TSD facility, and falls into the category of a conditionally exempt small quantity generator.

It was observed from departmental files that Georgia-Pacific submitted a closure plan. Evidence of follow through of Georgia-Pacific can not be verified. Deletion of the generator EPA ID number MOD09235642 for Georgia-Pacific was stamped and located in the files. The reason for Silvanus retaining the ID for Georgia-Pacific has not been explained from data found in the files. It is possible the Department of Natural Resources did not receive proper closure for the Georgia-Pacific Company and are therefore regarding the Silvanus Products facility to be the identical facility with only a name change.

SUBMITTED BY:

APPROVED BY:

Rich T. Roberts

Albert R. Wampler
Environmental Services

Environmental Engineer II

Rick L. Roberts, P.E. Environmental Engineer III

ARW/RLR/sw

HAZARDOUS WASTE TREATMENT/STORAGE/DISPOSAL FACILITY Interim Status Checklist

Name of Facility: SILVANUS PRODUCTS, IN	Date: <u>DECEMBER 20, 1989</u>
Off-Site Facility?yn I.S. for:	
Address: 40 MERCHANT ST	Other Inspection Done:
STE GENEVIEUE MO 63670	RRTRANSLDR OTHER
Phone: (314)883-3521 MO ID# NovE	EPA ID# NONE-FORMER MODOGIASINA
Facility Representative: URBAN KLEIN	EPA ID# NONE-FORMER MODO9235/642 GEORGIA-PACIFIC COMPANY Title: Vice President, Sales MCR
Briefly describe manufacturing process(es).	(Use continuation sheet, if needed.)
Silvanus PRODUCTS, INCORPORATED is	MANUFACTURER OF LOOSE-LEAT
Dinyl PRODUCTS, SURH AS NOTE-BOOK	
	•
A JEW PAPER PRODUCTS LIKE LOAN PRYMENT BOD	
CUTS TO SHAPE AND EMPLOYED SILK SCHEE	N AND PRINTING TO LABEL AND
DECORATE THE VINYL PRODUCTS	
List of wastes generated.(Use continuation	
Waste Amount/Mo	<u>Disposition</u>
1. NO REGULATED QUANITY of ANY	WASTE IS CENERATED
INK AND SOIDENT CONTAMINATED R 2. ARE TRANSPORTED TO THE SANITARY	AGS USED FOR EQUIPMENT CLEANING. LANDGILL LESS THAN A REGULATED
QUANITY.	LESS THAN A REGULATED
	· · · · · · · · · · · · · · · · · · ·
4	
5	
SILVAMIS PRODUCTS, TWOORPORATED HAS ANIFESTS AND RECORDERED TO CER 25-5.262(2) AND 5.262(2)(8) AND (D) B. PRETE Silvamis HO and EPA I.D. Numbers	BEEN DETERMINED to BE CONAILY EXEMPT) TSD REGULATIONS NAME INSPORT, CONTAINERIZATION AND LABELING 10 CSR 25-5.262(2) AND 22(C)1
Vaste	Packaged, marked and labeled per DOT during entire on-site storage and prior to transport
PA Waste I.D. codes	ds available for use by transporters
a. Il Transporters' names, phone #'s, MO and EPA I.D. #'s	its accumulation requirements met (if applicable) () Stored in satellite areas less than 1 year () Containers marked identifying contents and beginning date () Containers kept closed/compatible/good condition () Quantities accumulated not exceeding 55 gal. (1 qut. acutely hz. waste)
roper DOT Shipping Name, Hazard Class and I.D. #	
TODAY CARTIFICATION including waste minimization	ANALYSIS 10 CSR 25-7.265(2) AND 7.264(2)(B)
Anifest properly stened and dated	fy hazardous wastes handled at facility
9 more than 10 days time between consenter and facility	to confirm wastes received from off-site
anifests returned within 35 days	TY 10 CSR 25-7.265(1) AND 7.265(2)(B)
f not, exception generator report submitted within 45 days () 24-hou	r surveillance system at facility or
	ificial or natural boundary/controlled access.
Legibl	e from a distance of 25 feet

Briefly describe waste streams managed at each TSD process.

	Waste	Amount/m	onth	Process	Design Capacity	
		MANE				
		NONE				
	e The Cale of					
	٠	.*		e sec		
Ε	GENERAL INSPECTION 10 CSR 25-7.265(2) AND 7.265(2)(B)					
-	Facility inspected and maintained.			FEST, RECORDS, REPORTING 10 CSF off-site facilities	l 25-7.265(2) AND 7.265(2)(E)	
	Inspection log and written schedule for inspecting		Mani	fests signed and dated		.()
	Inspect emergency equipment		Сору	to transporter		.()
	Inspect security devices		Сору	to generator in 30 days		.()
	Inspect operating and structural equipment		Сору	at facility for 3 years		.()
			Operatin	record		
τ.	PERSONNEL TRAINING 10 CSR 25-7.265(2) AND 7.265(2)(B)		Desc	ription, quantity, and TSD pro-	cess for all hazardous wastes	.()
	Documentation of hazardous waste director's qualificati		Loca	tion and quantity of all hazard	dous waste	.()
	Completed classroom or on-the-job training		Wast	a analysis records from off-si	te sources	.()
	Job title, description, and name of person filling posi		Summ	ary and description of emergence	cy incidents	.()
	Written record of the type and amount of training given		Reco	rd of inspections	* * * * * * * * * * * * * * * * * * * *	.()
	Documentation confirming that training has been given.	• • • • • • • • • • • • • • • • • • • •	Moni	toring, testing and analytical	results if necessary	.()
G.	PREPAREDNESS AND PREVENTION 10 CSR 25-7.265(2) AND 7.26	5(2)(C)	Reportin			
	Internal communication or alarm system				-site facilities	
2 - 1	Device in the hazardous waste operation area capable of emergency assistance	summoning	•		losure	.()
	Fire control, spill control, and decontamination equipme			TRIM STATUS CONTAINERS 10 CSR 2		
	Adequate water supply for fire control equipment				lition	
	Adequate and proper safety equipment available		ther		stible with hazardous wastes placed in	.()
	Adequate sisle space		Haza	rdous waste containers storage	area inspected once a week	.()
	Arrangements with local emergency agencies		Insp	ection log		.()
н.	CONTINGENCY PLAN AND EMERGENCY PROCEDURES 10 CSR 25-7.26	5(2) AND	Cont	ainers holding ignitable or re erty line	active waste at least 50 ft. from the	
	Contingency plan		Inco		rent containers.	
	Detailed description of procedures than account		Are	storage containers holding her	ardone waste which are income the	
	response to rires, explosions, or release of hazardous w	aste ()	near	by materials separated by dike	s, berms, walls, or other devices	.()
	Describe formal arrangements with emergency agencies Names, addresses and phone numbers (home & office) of emcoordinators		Cont	ainers stored within a contain eria of 10 CSR 25-7.265(2)(I).	ment system (if applicable) meeting	.()
	Emergency equipment including its description and locati		L. INTE	RIM STATUS TANKS - 10 CSR 25-7 Tank Checklist)	.265(2) AND 7.265(2)(J)	
	Evacuation plan if applicable		(366	Tank Checklist)		
,			H. INTE	RIN STATUS SURFACE IMPOUNDMENTS	S 10 CSR 25-7.265(2) AND 7.265(2)(K)	
١.	WASTE OIL 10 CSR 25-11.010		2 ft	. of freeboard in surface impor	undment	.()
	Waste oil properly handled		Eart	hen dikes have protective cover		.()
	Written waste oil contract maintained	()	New	additions, replacements, or exp undments designated with double	pansions of existing surface e liner and leachate system	.()
			Plac:	ing a substantially different h	n documentation obtained before hazardous waste into a surface hazardous	()
					rating day	
					for leaks, deterioration or failures	
					logs	
			Waste	treated, rendered or mixed so	that mixture no longer meets the	
			Incom	patible wastes segregated in a	aparata surface immunicati	

s.	GROUNDWATER MONITORING 10 CSR 25-7.265(2) AND 7.265(2)(F) Applicable to surface impoundments, landfills and landfarms	
	Groundwater monitoring wells installed	()
	Wells are structurally sound	()
	Sampling and analysis plan on-site	()
	Samples and groundwater levels taken	()
	Groundwater monitoring results kept	()
j	CLOSURE AND POST-CLOSURE 10 CSR 25-7.265(2) AND 7.265(2)(G)	
	Closure plan for facility	
	Description of how and when facility will be closed	()
	Estimate of maximum inventory of hazardous waste	
	Steps to decontaminate equipment	()
	Post-closure plan for disposal facilities only	
P.	FINANCIAL REQUIREMENTS 10 CSR 25-7.265(2) AND 7.265(2)(H)	
	Cost estimate for facility closure	()
	Financial assurance for closure and post-closure	
	Liability for sudden accidents	()
	Liability for non-sudden accidents for disposal only)
	All QUANTY CONDITIONALLY EX	
		La region of the second of the second
NECOM MEND	RE-CLASSIFICATION - FACILIT	Y NEEDS TO
Sugnit	DOCUMENTATION FOR PA	oof of NON-TSD
	DO CAPAÇÃO O PORTO PORTO	33, 8, 7000 700
		. · · · · · · · · · · · · · · · · · · ·
Inspector Signatu		ENVIRONMENTAL ENGINEER
	Office: South EAST REGIONS	OL OFFICE POPLAR DLUFF, NO
		,
માર્જ પ્રાથમિક ઉપાસ્ત્ર		IN COMPLIANCE
	* * *	IN VIOLATION OR (-) ABSENT

q_elewy.

APPENDIX D

Missouri Department of Natural Resources Letter of Warning 3.500 STE. GENEVIEVE CO.-HW Silvanus Products, Inc.

JOHN ASHCROFT
Governor

G. TRACY MEHAN III



Division of Energy
Division of Environmental Quality
Division of Geology and Land Survey
Division of Management Services
Division of Parks, Recreation,
and Historic Preservation

STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL QUALITY
Poplar Bluff Regional Office
948 Lester St.
P.O. Box 1420
Poplar Bluff, MO 63901

314-785-0832

May 2, 1990

Mr. Urban Klein Vice President, Sales Manager Silvanus Products, Incorporated 40 Merchant Street Ste. Genevieve, Missouri 63670

L.O.W. 90-SE 003

CERTIFIED MAIL: P 179 368 276

Dear Mr. Klein:

Enclosed is a Report on Inspection of the Silvanus Products, Incorporated facility conducted on December 20, 1989. This inspection was made to determine if Silvanus Products, Incorporated was in compliance with the environmental laws of the State of Missouri and rules of the Department of Natural Resources and applicable rules of the U.S. Environmental Protection Agency pertaining to hazardous waste management. The contents of the report are believed to be self-explanatory. If, however, you have any questions concerning any part of the report, please call Albert R. Wampler at our Poplar Bluff Regional Office, 314-785-0832.

The Department of Natural Resources strongly urges that the recommendations contained in this report be given your immediate attention. The recommendations are, in our best judgement, necessary actions to return your facility to compliance. Your facility should submit copies of documentation requested in these recommendations to the Department of Natural Resources, Waste Management Program, Attn: Arthur Groner, Section Chief, Hazardous Waste Enforcement, P.O. Box 176, Jefferson City, MO 65102 and to the Department of Natural Resources, Southeast Regional Office, Regional Administrator, P.O. Box 1420, Poplar Bluff, MO 63901.

Compliance should be completed within thirty (30) days of receipt of this report and documentation of compliance should be mailed to each above mentioned offices within thirty (30) days of receipt of this report. Staff of the Department of Natural Resources will be

Mr. Urban Klein May 2, 1990 Page 2

performing future investigations to determine if corrective actions have been successful in achieving compliance.

Sincerely,

James A. Burris, P.E. Regional Administrator

JAB/ARW/sw

Enclosures

ec: Arthur Groner, Waste Management Program u



Burns and McDonnell Waste Consultants Original Closure Plan Review Comments

filo

Division of Energy

Division of Environmental Quality

Division of Geology and Land Survey
Division of Management Services

Divisionof Parks, Recreation,

and Historic Preservation

JOHN ASHCROFT

Governor

G. TRACY MEHAN III
Director



STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL QUALITY

P.O. Box 176

CERTIFIED MAIL #P 396 604 161 Jefferson City, MO 65102 RETURN RECEIPT REQUESTED

January 24, 1992

RECEIVED

JAN 30 1992

PRMT SECTION

Mr. Urban Kline Sylvanus Products, Inc. 40 Merchant St. St. Genevieve, MO 63670

RE: Container Storage Facility Closure Plan, EPA ID Number MOD092351642 Facility Location: 40 Merchant St., St. Genevieve, MO

Dear Mr. Kline:

Enclosed you will find the comments generated by our consultant's (Burns & McDonnell Waste Consultants, Inc.) review of the closure plan for the above referenced hazardous waste management unit. The review of the closure plan has been conducted to ensure conformance of the plan with 10 CSR 25-7.265 and 40 CFR Part 265 Subpart G. Burns & McDonnell Waste Consultants, Inc. has provided the technical review of the closure plan while the department still maintains approval authority for the closure plan. Please respond to the enclosed comments with a revised closure plan and/or clarifying response within thirty (30) days after receipt of this letter. If you should have any questions, please do not hesitate to call Mr. Ken Volmert of this office at (314) 751-3176. Please note, we may ask that your questions also be discussed with our consultant. If within thirty (30) days after receipt of this comment letter, a revised closure plan and/or adequate response has not been received, the department may approve the existing closure plan with modifications in accordance with the procedures outlined in 40 CFR Part 265.112 (d)(4).

Sincerely,

HAZARDOUS WASTE PROGRAM

Daniel M. Tschirgi, P.E.

Chief, Hazardous Waste Permits Unit

DMT:kvj

Enclosure

c: Lynn Harrington, P.E., EPA Region VII Southeast Regional Office

EMPLOYEE - OWNED

Burns & McDonnell

ENGINEERS-ARCHITECTS-CONSULTANTS

January 10, 1992

Mr. Robert K. Morrison, P.E. Missouri Department of Natural Resources Hazardous Waste Program P.O. Box 176 Jefferson City, MO 65102

Silvanus Products, Inc.
Container Storage Facility Closure Plan
EPA ID Number: MOD092351642
Facility Location: 40 Merchant St., Ste. Genevieve, MO

Dear Mr. Morrison:

Burns & McDonnell Waste Consultants, Inc. has completed a review of the closure plan for the container storage area at the Silvanus Products, Inc. facility, 40 Merchant Street, Ste. Genevieve, Missouri. The review was done in accordance with 10 CSR 25-7.265 and 40 CFR Part 265 Subpart G. This comment letter is submitted in accordance with the contract to provide engineering services we received by letter dated November 20, 1991.

This letter includes the comments resulting from the technical review of the closure plan submitted on September 1, 1982 by Georgia-Pacific Corporation, which owned the facility prior to Silvanus. On May 25, 1984, Georgia-Pacific sent a letter to the Missouri Department of Natural Resources (MDNR) requesting that their generator ID number and interim status be transferred to Silvanus due to sale of the property. As part of the property transfer, Georgia-Pacific removed the waste stored at the facility and shipped it on June 21, 1984, to Chemical Waste Management's facility in Emelle, Alabama. However, no notification was given to the MDNR prior to the removal of the waste nor was any sampling done to confirm a clean closure.

On January 29, 1985, Silvanus requested that the MDNR delete the generator ID number and interim status transferred to them by Georgia-Pacific because they would no longer be generating or storing hazardous waste as defined by RCRA regulations. The MDNR issued a letter on June 27, 1990 explaining why the Silvanus facility was still classified as an interim status treatment, storage, or disposal facility (TSDF). The name and ownership change does not change the fact that the facility is still under interim status. Based on the regulations and the fact that Silvanus has not submitted a revised closure plan, the closure plan submitted by Georgia-Pacific still applies to the facility. The comments with respect to that plan are as follows:

1. The plan does not provide an adequately detailed description of the steps needed to remove or decontaminate all hazardous waste residues and contaminated containment system components, equipment, and structures during final closure. The plan must provide methods for sampling and testing of the concrete floor, the concrete block walls, and any

Telephone: (816) 333-4375

Burns & MCDonnell

January 10, 1992 Page 2

significant cracks in the floor, and define the criteria for determining the extent of decontamination necessary to satisfy the closure performance standard in 40 CFR 265.111 and in 10 CSR 25-7.265(2)(G)3 and 4.

It was noted by Silvanus personnel that a new ceiling has been placed in the container storage area and the walls in the storage area painted. The sampling plan must address these changes in the storage area. The testing and sampling requirement to demonstrate closure in conformance with the closure performance standard is contained in 40 CFR 265.112(b)(4).

- 2. A schedule specifically for closure of the container storage unit must be included in the revised plan. It must specify the total time required to close the unit and the time required for intervening closure activities, which will allow tracking of the progress of partial and final closure as required by 40 CFR 265.112(b)(6). An estimate of the expected year of final closure must also be included as per 40 CFR 265.112(b)(7). The agency notifications required by 40 CFR 265.112(d) and the closure deadlines in 40 CFR 265.113 must be addressed in the closure schedule.
- 3. All hazardous wastes and hazardous waste residues must be removed at final closure to background levels or to below detection limits for the hazardous waste constituents. Removal of contaminated materials and/or the management of decontamination fluids during final closure may result in the owner or operator becoming a generator of hazardous wastes. The federal regulation 40 CFR 265.114 requires that the waste be handled in accordance with all applicable requirements of Part 262.
- 4. The revised plan must address the closure certification requirements in 40 CFR 265.115. Within 60 days of completion of final closure, the owner or operator must submit to the agency, by registered mail, a certification that the container storage area has been closed in accordance with the specifications in the approved closure plan. The certification must be signed by the owner or operator and by an independent registered professional engineer.
 - 5. The decontamination of equipment, containment systems, and structures during closure will require various levels of personnel safety as a result of the process used and if air monitoring equipment in the contaminated area indicates that volatile organic compounds are present. The personnel safety procedures that will be necessary during closure should be outlined in the closure plan and should meet all applicable Occupational Safety and Health Act (OSHA) requirements.

Burns & MCDonnell

January 10, 1992 Page 3

6. The closure plan revisions that result from the above comments, such as the sampling and testing methods, the decontamination procedures, and the certification of closure by an independent registered professional engineer, will significantly change the estimated closure costs presented in the September 1, 1982 plan. Therefore, the cost estimate for closure of the container storage area must be updated to comply with 40 CFR 265.142 and to reflect changes in the plan that result from the above comments.

As part of our technical review, the facility was visited and photographed to document its current status and condition. Copies of the photographs are provided with this letter. Copies of other documentation and forms which support the review are provided as per the contract agreement.

If there are any questions regarding the comments in this letter, please call at (816) 333-4375. We appreciate the opportunity to be of service to the Department.

Sincerely,

Craig W. Borgmeyer, E.I.T.

Crais Borgmeyer

Project Engineer

Rickie L. Roberts, P.E.

Like 1, aberta

Project Engineer

CWB/RLR/pkw.005 Enclosures

APPENDIX F

Silvanus Products Inc. March 30, 1992 Revised Closure Plan



75b feec: Siyanus Preducts, Inc.,
40 Merchant Street
Ste. Genevieve, Missouri 63670
Telephone (314) 883-3521



March 30, 1992

Mr. Dan Tschirgi Waste Management Program Missouri Department of Natural Resources Box 176 Jefferson City, MO 65102

SUBJECT: Silvanus Products, Inc. Closure Plan

Dear Mr. Tschirgi,

TECEIVE D

HAZARDOUE WASTE PROGRAM MISSOURI DEPARTMENT OF NATURAL RESOURCES

Enclosed, please find a revised container storage Closure Plan which is written in accordance with 40CFR, Part 265, Subpart G, and applicable State closure requirements. As previously conveyed to your regional office, Silvanus Products, Inc. has not used the interim status storage area for a number of years and would like to terminate the interim status permit. Approval of this closure plan is requested to allow us to complete all RCRA requirements.

Should you have any questions on the technical content of the closure plan, please feel free to call our consultant engineer, Mr. John Doyle, at 314-636-5331. Should you have any further questions, please feel free to direct them to me.

Sincerely.

Urban Klein

Silvanus Products, Inc.

cc: John Doyle

MDNR-Poplar Bluff Regional Office

CLOSURE PLAN

for

Silvanus Products, Inc. Ste. Genevieve, Missouri Container Storage Facility EPA ID No. MOD092351642 DECEIVE!

APR 02 1992

HAZARDOUS WASTE PROGRAM MISSOURI DEPARTMENT OF NATURAL RESOURCES

by

Environmental Concepts, Inc. Jefferson City, MO

March 21, 1992

1.0 Introduction

This closure plan addresses the final closure procedures for a hazardous waste storage facility (TSDF) located at Silvanus Products, Inc., 40 Merchant Street, Ste. Genevieve, MO. This plant has operated since the mid 1950's. In November, 1980, Georgia-Pacific Corporation, the operator/owner at that time, filed a hazardous waste Part A permit application and obtained interim status (EPA ID Mo. MOD092351642). The wastes stored at the facility are listed in Section 2.0. Georgia Pacific manufactured and decorated vinyl products, notebook binders, menu covers, checkbook covers, bankbooks for recording loan payments. The site of the waste storage area is shown in Figure 1. The facility was initially permitted to hold 5,500 gallons. A closure plan for the facility was developed by Georgia-Pacific on September 1, 1982, however the plan was never completed in accordance with 40 CFR Part 265 Subpart G. On May 25, 1984, Georgia-Pacific transferred their generator I.D. number and interim status to Silvanus Products. Georgia-Pacific removed the waste stored at the facility and shipped it on June 21, 1984, to Chemical Waste Management, Emelle, Alabama.

Silvanus Products in a letter dated January 29, 1985, requested MDNR to delete the EPA ID number. Generator status was deleted, however, MDNR's position is that closure was not achieved for the TSDF and therefore the facility is still on record as being a TSDF. The storage facility at the Silvanus plant is a 15' by 35' room which prior to 1984 was used to store rags containing solvent in 55-gallon drums.

Georgia-Pacific had an incinerator which according to Silvanus Products was used for burning waste paper. The burning was discontinued at the request of the City of Ste. Genevieve because of smoke emissions. This incinerator was not included as a part of the

original closure plan, nor was it listed on the Part A submittal. The incinerator was removed in 1984 and dealt with as scrap metal according to Silvanus Products.

2.0 Description of Hazardous Waste Management Unit

The hazardous waste unit consists of one 15' x 35' room which has not been used for storage of hazardous waste since 1984-1985. The waste stored was containerized contaminated rags. There were no vessels, pipes, or other equipment in the room which handled hazardous waste according to Silvanus Products.

The floor of the room is concrete and the walls are concrete block. Silvanus personnel have placed a new ceiling in the room (suspended) and painted the walls. The wastes designated in the Part A application for storage are listed in Table 1. The floor has a small hairline crack with no separation on visual inspection.

3.0 Description of How the Unit Will Be Closed

The unit will be closed by wipe testing the floor, walls and the original ceiling and taking a background wipe test in the warehouse area (see Figure 1) for all chemicals suspected to have been stored in this unit (i.e. those listed in Table 1). Two wipe samples will be taken on the floor, one near the crack and another in the most obvious area of contamination (if any). The rational for the location of the background is that the nearby warehouse is typical of Silvanus operations.

Two samples will be taken from two of the walls and one sample will be taken from the old ceiling above the suspended ceiling. (See wipe procedures in Section 4.0).

Any hazardous wastes detected <u>above</u> background levels will mandate a cleaning of that surface area of the room in which contamination was detected. After cleaning, wipe testing will be repeated for the contaminant(s) found.

4.0 Residue Removal and Decontamination Procedures

Residues, if found, will be removed using an appropriate solvent and rags with all contaminated surfaces being wiped by hand. Level D work clothes and protective gloves will be worn by workers if surface cleaning is necessary.

Wipe testing will be done using methanol as the wipe solvent. A 100 cm² area will be wipe tested by wiping the surface with absorbent gauze for one minute or as necessary in two directions. Impervious disposable gloves will be worn during the wipe tests. The vials used to hold each wipe sample shall be filled with methanol such that no bubbles appear in the vials when inverted. Twenty ml. vials will be used to contain the samples. The test methods for the wipe tests are shown in Table 1.

5.0 Procedures for Equipment Cleaning

Not applicable.

6.0 Soil Testing - Boring Program

No liquid hazardous waste was stored at the site. Only solid hazardous waste was stored in sealed drums. Therefore, based on the information available no soil testing or soil removal will be necessary to complete the closure of this storage room.

7.0 Closure Schedule

Wipe Sampling	1 day
Laboratory Testing	14 days
Wall/Floor Cleaning (if necessary)	7 day
Retest (if necessary)	14 days
Engineer's Certification/Inspection	14 days
Review of Data	,

Estimated Closure Time

36-50 days

The closure will be completed and certified by a registered professional engineer within 3 months of approval of the

closure plan by MDNR.

8.0 Closure Cost Estimate

Laboratory Analysis (Background plus	\$6300.00
six samples)	
Sample Technician	\$400.00
Engineer Review/Certification	\$1100.00
Surface Cleaning (Optional) -	\$240.00
2 men 8 hr. @ \$15/hr.	

Total Estimated Closure Costs (Range) \$8040-11,140 with Retests

9.0 Missouri Deed Notice Requirements

The closure plan will result in the removal of hazardous wastes to below background

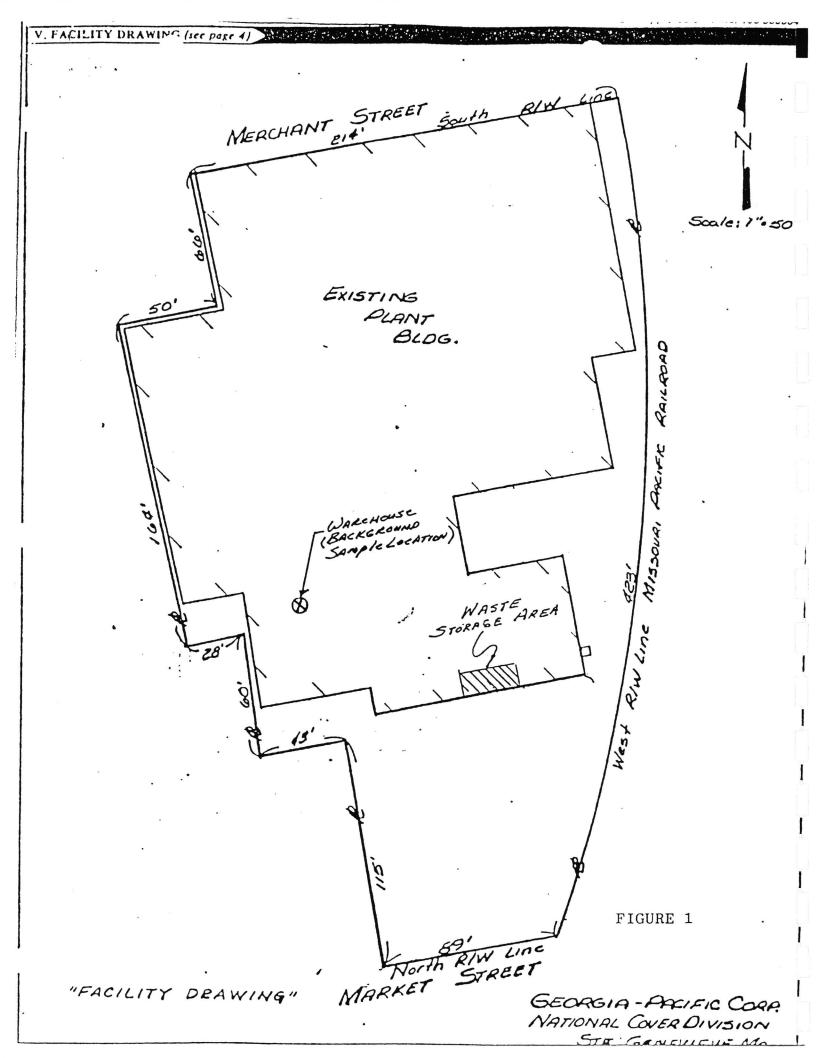
levels, therefore a deed notification will not be required as specified in 10 CSR 25-7.265. For the purpose of this closure background levels shall mean levels found in the warehouse sample for all chemicals listed in the 1980 Georgia-Pacific Part A.

TABLE 1

Annual Quantities of Waste Listed on Part A and Test Methods for Closure Verification Georgia-Pacific Corporation - November, 1980 Ste. Genevieve, MO

		~ ~	
		<u>Scan</u>	Detection Limit (mg)
U002 - 1500 lb/yr.	- Acetone	Volațile ⁽¹⁾	200
U031 - 1500 lb/yr.		$G.C.^{(3)}$	200
U112 - 1500 lb/yr.		Volatile	200
U117 - 1500 lb/yr.		Volatile	200
U159 - 1500 lb/yr.	- Methyl Ethyl Ketone	Volatile	200
U239 - 1500 lb/yr.	- Xylene	Volatile	200
F001 - 1500 lb/yr	Tetrachloroethylene	Volatile	200
	Trichloroethylene	Volatile	200
	Methylene Chloride	Volatile	200
	1,1,1 Trichloroethane	Volatile	200
	Carbon Tetrachloride	Volatile	200
	Chlorinated Fluorocarbons	Volatile	200
F002 - 1500 lb/yr.	Chlorobenzene	Volatile	200
	1,1,2 Trichloro - 1,2,2	Volatile	200
	Trifluouroethane		
	Ortho-dichlorobenzene	Semi-Volatile	100
	Trichlorofluoromethane	Volatile	200
	1,1,2 Trichlorethane	Volatile	200
F003 - 1500 lb/yr.	Ethyl benzene	Volatile	200
	Methyl isobutyl ketone	Volatile	200
	n - butyl alcohol	G.C.	200
	Cyclohexanone -	G.C.	200
	Methanol	N/A	(2)
F004 - 1500 lb/yr.	Cresols	Semi-Volatile	(2) 100
	Cresylic Acid	Semi-Volatile	100
	Nitro benzene	Semi-Volatile	100
F005 - 1500 lb/yr.	Carbon Disulfide	Volatile	200
	Isobutanol	G.C.	200
	Pyridine	Semi-Volatile	100
	Benzene	Volatile	200
	2 - ethoxyethanol	G.C.	200
	2 - nitropropane	Volatile	200

- (1) EPA Method 8240
- (2) EPA Method 8270
- (3) G.C. Gas Chromatograph





Waste Manifests/Manifest Log

MISSOURI DEPARTMENT OF NATURAL RESOURCES

Division of Environmental Quality Waste Management Program

.F.O. Box 176 Jefferson City, Missouri 65102 314-751-3176

5905-79

EMERGENCY RESPONSE U.S. COAST GUARD 1-800-424-8802 CHEM TREC 1-800-424-9300 DEPT. OF NATURAL RESOURCES 314-634-2436

WASTE RAGS

MOTE IND. FOR THEFT. ON PURTICAL CIN

(s.screen & printing

HAZARDOUS WASTE MANIFEST

e print or type (Form designed for use on elite (1	2-Pitch) typewriter.)				roved. OMB		he shaded are	
UNIFORM HAZARDOUS	1. Generator's US EPA ID No.	Manifest Docum	-	2. Page	1- 1010	ormation in t	IIA SUSCION STA	
WASTE MANIFEST	MOD092351642	1 000	002	of Z	Manifest Docu	equired by S	State Law.	
Generator's Name and Mailing Address SILVANUS PRODUCTS, INC. 40 MERCHANT ST. ST. GENEVIEVE, MO. 636 Generator's Phone (314) 883-3521	70			0 ព	en Sile Addre	31 <u> </u>		
Transporter 1 Company Name	6. US EPA ID	Number		C:MO:Tr	resorbite (e)			71950
SAFETY-KLEEN CORP.	* 14.f:	0669051			in deligi			
Transporter 2 Company Name SAFETY-KLEEN CORP.		51060408		EAMORTS Fathanapo Califiata Fa			A want & A	
Designated Facility Name and Site Address SAFETY-KLEEN CORP. STATE HWY 146 NEW CASTLE, KY. 40050		053348108	Les Santie	i recity	Version 19 to 19 t	14.		
1. US DOT Description (Including Proper Shipping Name,	Hazard Class, and ID NUMBER)		12. Contain	ers	Total	Unit Wt/Vol.		
RQ WASTE COMPOUND, CLEAN: FLAMMABLE LIQUID NA1993 (F003)(ERG#27)	ING, LIQUID		2	DM	657	Р		
							50 1 09 50 3 7755 20	
	7.7		×		E.			
1.							57.5W.596	
A delitional Description So National's Listed Nov.				Carding Co	Ge (Facility/Co) https://bostelid		-	
ESTATE DESTAL SOFTE SE	is a kinderia di distribuitati di distribuitati di	971		23071	1650			
15. Special Handling Instructions and Additional Information IF UNDELIVERABLE, RETURN EMERGENCY RESPONSE NUMBER	TO GENERATOR R 1-708-888-466	O (24 HR)		88J DOT #:	٠	145		
6. GENERATOR'S CERTIFICATION: I hereby declare to marked, and labeled, and are in all respects in p	that the contents of this consignment roper condition for transport by h	ent are fully and accur ighway according to a						d, packed, applicable
state regulations. If I am a large quantity generator, I certify that I have a that I have selected the practicable method of treatmet if I am a small quantity generator, I have made a goo	n program in place to reduce the voluent, storage, or disposal currently av	me and toxicity of wast allable to me which min	e generated to imizes the pro- ne best waste	o the degree sent and fut managemen	t method that is	man health a available to	me and that I	nment; OR, can afford.
Printer/Typed Name	Sign	Leenon	TI	Lwe	1		031	792
17. Transporter 1 Acknowledgement of Receipt of Material Printed Typed Name		nature A2	- A	1	0		Month Da	
18. Transporter 2 Acknowledgement of Receipt of Materia		ria	JI-OU				Da Month Da	
Printed/Typed Name SHRUM	Sign	nature $\mathcal{L}_{\mathcal{O}}$	7	$\langle f \rangle$	MI		03/	892
19. Discrepancy Indication Space			U		į	-		
20. Designated Facility Owner or Operator: Certification of	d	metariale envered by t	this manifest	except as no	ted in Item 19.			

INSTRUCTIONS FOR THE COM-PLETION OF THIS FORM ARE ON REVERSE SIZE.

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS.

MISSOURI DEPARTMENT OF NATURAL RESOURCES

Division of Environmental Quality
Waste Management Program
9.O. Box 176 Jefferson City, Missouri 65102

590579

EMERGENCY RESPONSE
U.S. COAST GUARD
1-800-424-8802
CHEM TREC
1-800-424-9300
DEPT. OF NATURAL RESOURCES

HAZARDOUS WASTE MANIFEST

Form Approved. OMB No. 2050-0039. Expires 9-30-92 Please print or type (Form designed for use on elite (12-Pitch) typewriter.) 2. Page 2 1. Generator's US EPA ID No. Information in the shaded areas Manifest Document No **UNIFORM HAZARDOUS** 00.00 is required by State Law **WASTE MANIFEST** MOD092351642 A. Miseouri Manifest Docu 3. Generator's Name and Mailing Address SILVANUS PRODUCTS, INC. 0 0 0 B.G.S. (Gen. Site Address SAME) 40 MERCHANT ST. MO. 63670 4. Generator's Phone (PART 5. Transporter Company Name 6. US EPA ID Number WID980904742 Z.E SCHNEIDER TRANS. 8. US EPA ID Number EMONTOUS CIRCLE 7. Transporter 2 Company Name 9. Designated Facility Name and Site Address SAFETY-KLEEN CORP. 10. US EPA ID Number SSOURI DNR FINAL COPY STATE HWY 146 KYD053348108 NEW CASTLE KY 40050 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID NUMBER) 12. Containers 13. Unit Quantity Wt/Vol PAGE THIS : cbro G Ε N SHIPPING FOR MANIFEST E T **PURPOSES** 0 R ONLY Handling Code (Facility Use Onl R BY THE DESIGNATED BY THE GENERATOR. 15. Special Handling Instructions and Additional Information 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are class marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations are If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Day Printed/Typed Name 17. Transporter 13 knowledgement of Receipt of Materials Date Day Month Year Signature AZSPORTER 0,3 26 Date MUST BE SENT BACHEN TRANSMITTED 18. Transporter 2 Acknowledgement of Receipt of Materials Month Day Signature Printed/Typed Name 19. Discrepancy Indication Space C 20. Designated Facility Owner or Operator: Certification of receipt and handling of hazardous materials covered by this manifest except as neighbor in Item 19. Printed/Typed Name Anne EPA Form 8700-22 (Rev. 4-90) MDNR-HWG 10 PREVIOUS EDITIONS ARE OBSOLETE

MISSOURI DEPARTMENT 'F I'A' URAL RESOURCES

Division of Environmental Quality Waste Management Program P.O. Box 176 Jefferson City, Missouri 65102

EMERGENCY RESPONSE U.S. COAST GUARD 1-800-424-8802 314-751-3176 DEPT. OF NATURAL RESOURCES 314-634-2436

INSTRUCTIONS FOR THE COM-PLETION OF THIS FORM ARE AT THE TI PARTS WASHER

~ CHEFNED ADD 1 0 1009.

HAZARDOUS WASTE MANIFEST

UNIFORM HAZARDOUS	te (12-Pitch) typewriter.) 1. Generator's US EPA ID N	o. Manifest Docur	ment No. 2.	Page 1		. 2050-0039. E	ed areas
WASTE MANIFEST	in the Pray's year		444	of 1	je rem	ired by State Lav	
enerator's Name and Mailing Address	MOD 092351642	54(4)	St. 14 March St. 15 March St. 1	Missour Man			
SILVANUS PRODUCTS INC		f kili f			Salar Emplaid for I		
40 MERCHANT STREET, STE	CENEUTEUR NO A	53670	В	वक्षा वक		San S	
enerator's Phone (21/4) RES_SEST							
ransporter 1 Company Name	in the second second	EPA ID Number	8	10-000			Account to
SAKETY-KLEEN CORPORATIO		D 000669051		forten.	Glist		
ransporter 2 Company Name	8. US	PA ID Number			THE PARTY OF THE P		
esignated Facility Name and Site Address	10 118	EPA ID Number			S. Colonia Sol		
SAFETY-KLEEN CORPORATIO	2000	-030-01					
BOXIE 2 BOX 5490			5 B				
CAPE-GIRARDRAU MO 6370	Later I-M	000669051					
US DOT Description (Including Proper Shipping N			12. Containers	1. T. C. (1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	13.3.3.5	14. Unit	
文明 。1000年,1000年	A CAPPAN	E E & PELLE !	10000000000000000000000000000000000000	· · · · · · · · · · · · · · · · · · ·	vantity.	MVVol.	
WASTE PETROLEUM NAPHTEA	THE SECOND SECOND	The same of the sa	1		1		
COMBUSTIBLE LIQUID UNI 2	55 (ERG #27)(DOC)t)E	1 13 11	M 6	5	9	
	Market Property	= W / 4 = \$6' = 10	S 22 30	Ai: On	11.2	Fee: William	7.23.4
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	o of the state of		E		32	
	1000	P P P P P P P P P P P P P P P P P P P	3 5	1000年			
	eta site	L TIES THE	小海菜 计	建7.5	5 (f		1. 1. 5. 2. 3.
	THE THE PARTY OF T	7.5				1 To 1	
	A STATE OF BELLEVILLE	b-y. Albert 12		第2 年 · 代 李		97	
	Free grass and the first of the same			ر. «فران المانية المان	ri	ASUSA .	
*			10000		3-22-55 T	55555	
				Maria Cara (III		**	
representation in the contraction of the contractio			* * 5	man a bount work with	married Risadows Care La	*	
The state of the second st	Simulation of the second of	and the second s			200		
				and the second s			
					E. A. Maria		
			The state of the s		C. S. S. S. S.	Same S	* .**
Special Handling Instructions and Additional Infor	nation 5-030-01-91	103	1.7 E			100	
Special Handling Instructions and Additional Infon	1000 5-030-01-91 6440 24HR	UNDELIVERABLE	RETURI	TO GE	NERATO	.	
EMERGENCY RESP#708-868-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	UNDELTY ERABLE	, REIURI	I TO GE	NERATO		
EMERGENCY RESP#708-888- SKDOT# A: 501	6440° 24HR 7 17	UNDELTYERABLE	ately described	hove by prop	er shipping n	ame and are cla	selfied, packs
SEDETA A: 501 GENERATOR'S CERTIFICATION: I hereby declarated and labeled, and are in all respects intereregulations.	e that the contents of this consin proper condition for transport	INDELIVERABLE Ignment are fully and accur by highway according to a	ately described opplicable interna	above by prop	er shipping n	ame and are cla nent regulations	and approac
SKDOTI A: 501 SKDOTI A: 501 GENERATOR'S CERTIFICATION: I hereby decision and labeled, and are in all respects is state regulations. If I am a large quantity generator, I certify that I have	re that the contents of this consin proper condition for transport we a program in place to reduce the	ignment are fully and accur by highway according to a	ately described applicable interna	above by prop tional and na	er shipping national government to human	ame and are cla nent regulations be economically health and the er	practicable and extraordinates
GENERATOR'S CERTIFICATION: I hereby declar marked, and labeled, and are in all respects is state regulations. If I am a large quantity generator, I certify that I has that I have selected the practicable method of tree if I am a small quantity generator, I have made a	re that the contents of this consin proper condition for transport we a program in place to reduce the	ignment are fully and accur by highway according to a	ately described applicable interna	above by prop tional and na	er shipping national government to human	ame and are cla nent regulations be economically health and the er	practicable and environment: O
GENERATOR'S CERTIFICATION: I hereby declar marked, and labeled, and are in all respects is state regulations. If I am a large quantity generator, I certify that I has that I have selected the practicable method of tree if I am a small quantity generator, I have made a	re that the contents of this consin proper condition for transport we a program in place to reduce the	ignment are fully and accur by highway according to a e volume and toxicity of wasts ty available to me which mini site generation and select the	ately described applicable interna	above by prop tional and na	er shipping national government to human	ame and are cla nent regulations be economically health and the er liable to me and t	practicable an environment; O hat I can affor
SENERATOR'S CERTIFICATION: I hereby decisions and labeled, and are in all respects intate regulations. If I am a large quantity generator, I certify that I has that I have selected the practicable method of tree if I am a small quantity generator, I have made a printed Typed Name	re that the contents of this consin proper condition for transport ve a program in place to reduce the transport storage, or disposal current good faith effort to minimize my was	ignment are fully and accur by highway according to a e volume and toxicity of wasts ty available to me which mini site generation and select the	ately described applicable interna	above by prop tional and na	er shipping national government to human	ame and are clament regulations be economically health and the eliable to me and the Month	practicable as evironment; O hat I can affor Day Yea
GENERATOR'S CERTIFICATION: I hereby decision of the state regulations. If I am a large quantity generator, I certify that I has that I have selected the practicable method of tree if I am a small quantity generator, I have made a PrintedTyped Name Transporter 1 Acknowledgement of Receipt of Ma	re that the contents of this consin proper condition for transport ve a program in place to reduce the transport storage, or disposal current good faith effort to minimize my was	ignment are fully and accur by highway according to a e volume and toxicity of wasts ty available to me which mini site generation and select the	ately described applicable interna	above by prop tional and na	er shipping national government to human	ame and are clament regulations to be economically health and the elilable to me and to Month	practicable as priving the property of the priving the
GENERATOR'S CERTIFICATION: I hereby decision of the state regulations. If I am a large quantity generator, I certify that I has that I have selected the practicable method of tree if I am a small quantity generator, I have made a PrintedTyped Name Transporter 1 Acknowledgement of Receipt of Ma	re that the contents of this consin proper condition for transport ve a program in place to reduce the transport storage, or disposal current good faith effort to minimize my was	ignment are fully and accur by highway according to a e volume and toxicity of waste by available to me which mini sate generation and select the Signature	ately described applicable interna	above by prop tional and na	er shipping national government to human	ame and are clament regulations be economically health and the eliable to me and the Month	practicable as vironment; O hat I can affor Day Yee O 7 9 Date
GENERATOR'S CERTIFICATION: I hereby decision marked, and labeled, and are in all respects is state regulations. If I am a large quantity generator, I certify that I has that I have selected the practicable method of tree if I am a small quantity generator, I have made a service of I am a small quantity generator, I have made a service of I am a small quantity generator, I have made a service of I am a small quantity generator, I have made a service of I am a small quantity generator, I have made a service of I am a small quantity generator, I have made a service of I am a small quantity generator, I have made a service of I am a small quantity generator of I accept of Market of I am a small quantity generator of I accept of Market of I am a small quantity generator.	re that the contents of this consin proper condition for transport we a program in place to reduce the timent, storage, or disposal current good faith effort to minimize my was terials	ignment are fully and accur by highway according to a e volume and toxicity of waster that generation and select the Signature Signature Run Signature	ately described applicable interna	above by prop tional and na	er shipping national government to human	ame and are clament regulations to be economically health and the elilable to me and to Month O Y	practicable as environment; O hat I can affor Day Yea O 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 0 7 9 0 0 0 0
GENERATOR'S CERTIFICATION: I hereby decision marked, and labeled, and are in all respects is state regulations. If I am a large quantity generator, I certify that I has that I have selected the practicable method of tree if I am a small quantity generator, I have made a service of I am a small quantity generator, I have made a service of I am a small quantity generator, I have made a service of I am a small quantity generator, I have made a service of I am a small quantity generator, I have made a service of I am a small quantity generator, I have made a service of I am a small quantity generator, I have made a service of I am a small quantity generator of I accept of Market of I am a small quantity generator of I accept of Market of I am a small quantity generator.	re that the contents of this consin proper condition for transport we a program in place to reduce the timent, storage, or disposal current good faith effort to minimize my was terials	ignment are fully and accur by highway according to a e volume and toxicity of waste by available to me which mini sate generation and select the Signature	ately described applicable interna	above by prop tional and na	er shipping national government to human	ame and are clament regulations to be economically health and the elilable to me and to Month	practicable as vironment; O hat I can affor Day Yee O 7 9 Date
GENERATOR'S CERTIFICATION: I hereby decision and labeled, and are in all respects in state regulations. If I am a large quantity generator, I certify that I had that I have selected the practicable method of tree if I am a small quantity generator, I have made a Printed/Typed Name Transporter 1 Acknowledgement of Receipt of Marprinted/Typed Name Printed/Typed Name RANGER AND TRANSPORTER AND	re that the contents of this consin proper condition for transport we a program in place to reduce the timent, storage, or disposal current good faith effort to minimize my was terials	ignment are fully and accur by highway according to a e volume and toxicity of waster that generation and select the Signature Signature Run Signature	ately described applicable interna	above by prop tional and na	er shipping national government to human	ame and are clament regulations to be economically health and the elilable to me and to Month O Y	practicable as environment; O hat I can affor Day Yea O 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 0 7 9 0 0 0 0
GENERATOR'S CERTIFICATION: I hereby deck marked, and labeled, and are in all respects is state regulations. If I am a large quantity generator, I certify that I had that I have selected the practicable method of tree if I am a small quantity generator, I have made a Printed/Typed Name Transporter 1 Acknowledgement of Receipt of Martin Printed/Typed Name Transporter 2 Acknowledgement of Receipt of Martin Printed/Typed Name Discrepancy Indication Space	re that the contents of this consin proper condition for transport we a program in place to reduce the timent, storage, or disposal current good faith effort to minimize my was terials	ignment are fully and accumply highway according to a evolume and toxicity of waster by available to me which minimate generator and select the Signature	ately described applicable interns e generated to the mizes the present e best waste man	above by prop tional and na	er shipping national government to human	ame and are clament regulations to be economically health and the elilable to me and to Month O Y	practicable as environment; O hat I can affor Day Yea O 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 0 7 9 0 0 0 0
GENERATOR'S CERTIFICATION: I hereby decision and labeled, and are in all respects in state regulations. If I am a large quantity generator, I certify that I had that I have selected the practicable method of tree if I am a small quantity generator, I have made a Printed/Typed Name Transporter 1 Acknowledgement of Receipt of Marprinted/Typed Name Printed/Typed Name RANGER AND TRANSPORTER AND	re that the contents of this consin proper condition for transport we a program in place to reduce the timent, storage, or disposal current good faith effort to minimize my was terials	ignment are fully and accur by highway according to a e volume and toxicity of waster that generation and select the Signature Signature Run Signature	ately described applicable interns e generated to the mizes the present e best waste man	above by propitional and national and nation	er shipping national government to human	ame and are clament regulations to be economically health and the elilable to me and to Month O Y	practicable as environment; O hat I can affor Day Yea O 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 0 7 9 0 0 0 0
GENERATOR'S CERTIFICATION: I hereby deck marked, and labeled, and are in all respects is state regulations. If I am a large quantity generator, I certify that I had that I have selected the practicable method of tree if I am a small quantity generator, I have made a Printed/Typed Name Transporter 1 Acknowledgement of Receipt of Martin Printed/Typed Name Transporter 2 Acknowledgement of Receipt of Martin Printed/Typed Name Discrepancy Indication Space	re that the contents of this consin proper condition for transport we a program in place to reduce the timent, storage, or disposal current good faith effort to minimize my was terials	ignment are fully and accumply highway according to a evolume and toxicity of waster by available to me which minimate generator and select the Signature	ately described applicable interns e generated to the mizes the present e best waste man	above by propitional and national and nation	er shipping national government to human	ame and are clament regulations to be economically health and the elilable to me and to Month O Y	practicable as environment; O hat I can affor Day Yea O 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 0 7 9 0 0 0 0
GENERATOR'S CERTIFICATION: I hereby decision of the state regulations. If I am a large quantity generator, I certify that I has that I have selected the practicable method of tree if I am a small quantity generator, I have made a Printed Typed Name Transporter 1 Acknowledgement of Receipt of Material Printed Typed Name RAND Transporter 2 Acknowledgement of Receipt of Material Rece	re that the contents of this consin proper condition for transport we a program in place to reduce the timent, storage, or disposal current good faith effort to minimize my was terials	ignment are fully and accur by highway according to a solume and toxicity of waste by available to me which ministe generator and select the Signature Signature Signature	ately described in policable internal and pol	above by propitional and national and nation	er shipping notonal government determined to human od that is ava	ame and are clament regulations to be economically health and the elilable to me and to Month O Y	practicable as environment; O hat I can affor Day Yea O 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 0 7 9 0 0 0 0
GENERATOR'S CERTIFICATION: I hereby decision and labeled, and are in all respects is state regulations. If I am a large quantity generator, I certify that I has that I have selected the practicable method of tree if I am a small quantity generator, I have made a Printed Typed Name Transporter 1 Acknowledgement of Receipt of Ma Printed/Typed Name Transporter 2 Acknowledgement of Receipt of Ma Printed/Typed Name Discrepancy Indication Space M.D. Man Designated Facility Owner or Operator: Certification	re that the contents of this consin proper condition for transport we a program in place to reduce the timent, storage, or disposal current good faith effort to minimize my was terials	ignment are fully and accur by highway according to a e volume and toxicity of waste by available to me which mini size generator and select the Signature Signature OOILSS	ately described in policable internal and pol	above by propitional and national and nation	er shipping notonal government determined to human od that is ava	ame and are clanent regulations be economically health and the elilable to me and to Month O Y Month O Y Month O Y	practicable an error to hat I can affor Day Yea O 7 9 0 Date Day Yea O 7 9 0 Date Day Yea Date Day Yea
GENERATOR'S CERTIFICATION: I hereby decision of the state regulations. If I am a large quantity generator, I certify that I has that I have selected the practicable method of tree if I am a small quantity generator, I have made a Printed Typed Name Transporter 1 Acknowledgement of Receipt of Material Printed Typed Name RAND Transporter 2 Acknowledgement of Receipt of Material Rece	re that the contents of this consin proper condition for transport we a program in place to reduce the timent, storage, or disposal current good faith effort to minimize my was terials	ignment are fully and accur by highway according to a solume and toxicity of waste by available to me which ministe generator and select the Signature Signature Signature	ately described in policable internal and pol	above by propitional and national and nation	er shipping notonal government determined to human od that is ava	ame and are clament regulations to be economically health and the elilable to me and to Month O Y	practicable as environment; O hat I can affor Day Yea O 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 7 9 0 0 0 7 9 0 0 0 0
GENERATOR'S CERTIFICATION: I hereby decision and labeled, and are in all respects is state regulations. If I am a large quantity generator, I certify that I has that I have selected the practicable method of tree if I am a small quantity generator, I have made a printed Typed Name Transporter 1 Acknowledgement of Receipt of Ma Printed/Typed Name Transporter 2 Acknowledgement of Receipt of Ma Printed/Typed Name Discrepancy Indication Space MD Mon Designated Facility Owner or Operator: Certification	re that the contents of this consin proper condition for transport we a program in place to reduce the timent, storage, or disposal current good faith effort to minimize my was terials	ignment are fully and accur by highway according to a e volume and toxicity of waste by available to me which mini size generator and select the Signature Signature OOILSS	ately described in policable internal and pol	above by propitional and national and nation	er shipping notonal government determined to human od that is ava	ame and are clanent regulations be economically health and the elilable to me and to Month O Y Month O Y Month O Y	practicable an error to hat I can affor Day Yea O 7 9 0 Date Day Yea O 7 9 0 Date Day Yea Date Day Yea

MISSOURI DEPARTMENT OF NATURAL RESOURCES

INSTRUCTIONS FOR THE COM-PLETION OF THIS THE COM-REVERSE SIDE. WASTE RAGS THIS DOCUMENT FOR ALL MISSOL S. Screen & Printing SHIPMENTS. Division of Environmental Quality
Waste Management Program
P.O. Box 176 Jefferson City, Missouri 65102
314-751-3176

EMERGENCY RESPONSE
U.S. COAST GUARD
1.800-424-8802
CHEM TREC
1.800-424-9300
DEPT. OF NATURAL RESOURCES
314-634-2436

HAZARDOUS WASTE MANIFEST

UNIFORM HAZARDOUS	1. Generator's US EPA ID No. MOD092351642	Manifest Document N		2	ormation in the shaded areas
WASTE MANIFEST Generator's Name and Mailing Address	100070001010	1 0000		is our Manifest Document	required by State Law.
Generator's Phone (314) 883-352			B, G.8.	Generality Addict	3. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
Transporter 1 Company Name SAFETY-KLEEN CORP.	6. US ENOIDO	JU869051	g040.00.000000000		
Transporter 2 Company Name SAFETY-KLEEN CORP.	8. US EPA ID NUI	mber 051060408	E(8/0)		
Designated Facility Name and Site Address SAFETY-KLEEN CORP. STATE HIGHWAY 146	10. US EPA ID N		ersfil H	reillerge Gregger Granier	
NEW CASTLE, KY 40050 US DOT Description (Including Proper Shipping Name)		0053348108	Containers	13.	14.
- #	January 1			. Total Quantity	Unit Wt/Vol.
RQ WASTE COMPOUND, CLEAR FLAMMABLE LIQUID NA1993 (F003) (FRG#27)			2 01	822	P
					SHOW MANY CONTRACTOR
in the second se		F.		4 "	
Adigon recommon eserciants (100k) or 1				SAS (FORM) VES (and L
	INTO A THE VIOLENCE OF THE PARTY OF THE	Wo.			Section 1
engeger state i de de fant de Geleger fan de fant de					The second secon
Special Handling Instructions and Additional Information EMERGENCY RESPONSE NUMBER			IL Tr	ans. ID:	1123
IF UNDELIVERABLE, RETURN		SK DOT #:	a. 11	45 (2	405701010
GENERATOR'S CERTIFICATION: I hereby declare to marked, and labeled, and are in all respects in pro-	hat the contents of this consignment arroper condition for transport by highway	fully and accurately de according to applicable	escribed above to	y proper shipping	name and are classified, pack
state regulations. If I am a large quantity generator, I certify that I have a that I have selected the practicable method of treatme	program in place to reduce the volume an	d toxicity of waste generate	ated to the degree	I have determined	i to be economically practicable a
if I am a small quantity generator, I have made a good	I faith effort to minimize my waste generat	ion and select the best v	raste manageme	nt method that is a	wallable to me and that I can afform
Printed/Typed Name					IN UIT MICH
PARNON T- SCHWE	3 pt 0/2	enont?	1chw	ent	10,713,017,
PARNON T- SCHWE	Signature	eron J	1cher	ent	Date Month Day Yee
Transporter 1 Acknowledgement of Receipt of Material Printed/Typed Name RANDY FISH	Signature	Randy	Fish	ent	
Transporter 1 Acknowledgement of Receipt of Material Printed/Typed Name RANDY FISH	Signature	Randy	Fish	ent	Month Day Ye
Transporter 1 Acknowledgement of Receipt of Material Printed/Typed Name Printed/Typed Name Transporter 2 Acknowledgement of Receipt of Material Printed/Typed Name Printed/Typed Name	Signature	Randy	Fish	un	Month Day Ye
Transporter 1 Acknowledgement of Receipt of Material Printed/Typed Name Printed/Typed	Signature	Randy (Fish	un	Month Day Ye
Transporter 1 Acknowledgement of Receipt of Material Printed/Typed Name Fish Transporter 2 Acknowledgement of Receipt of Material Printed/Typed Name Printed/Typed Name Acknowledgement of Receipt of Material	Signature	Randy	Fish	un	Month Day Ye
Transporter 1 Acknowledgement of Receipt of Material Printed/Typed Name Fish Transporter 2 Acknowledgement of Receipt of Material Printed/Typed Name Printed/Typed Name Acknowledgement of Receipt of Material	Signature	Randy (Fish	un	Month Day Ye
Transporter 1 Acknowledgement of Receipt of Material Printed/Typed Name Printed/Typed Name Transporter 2 Acknowledgement of Receipt of Material Printed/Typed Name Printed/Typed Name	Signature Signature	Randy Andy als covered by this manif	Fish Ohr	Um tegán item 19.	Month Day Ye
Transporter 1 Acknowledgement of Receipt of Material Printed/Typed Name Printed/Typed Name Transporter 2 Acknowledgement of Receipt of Material Printed/Typed Name Discrepancy Indigation Space	Signature Signature	Randy Randy Als covered by this manife	Fish Ohr est except as no	tegan item 19.	Month Day Ye

MISSOURI DEPARTMENT OF NATURAL RESOURCES

INSTRUCTIONS FOR THE COM-PLETION OF THIS FORM ARE ON REVERSE SIDE.

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS.

Division of Environmental Quality
Waste Management Program
P.O. Box 176 Jefferson City, Missouri 65102

EMERGENCY RESPONSE
U.S. COAST GUARD
1.800-424-8802
CHEM TREC:
1.800-424-9300
DEPT. OF NATURAL RESOURCES

HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12-Pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-92 1. Generator's US EPA ID No. Manifest Document No.: Information in the shaded areas UNIFORM HAZARDOUS 0003 of 2 **WASTE MANIFEST** MOD092351642 is required by State Law. Generator's Name and Mailing Address SILVANUS PRODUCTS, INC. ST. MERCHANT VETREET 63670 4. Generator's Phone (314) 6. US EPA ID Number 5. Transporter Company Name WID980904742 SCHNEIDER TRANS. company Name MOD 95038 FINAL COPY SAFETY-KLEEN CORP. STATE HIGHWAY 146 KYD053348108 40050 NEW CASTLE, KY. 12. Containers 11, US DOT Description (Including Proper Shipping Name, Hazard Class, and ID NUMBER) 3 Quantity Wt/Vol. **SOURI DNR** PAGE OF THIS .. 145 3415 MANIFEST Ö 24 SHIPPING PURPOSES: R ONLY Adenie i procesor de la company de la compan THE DESIGNATED HE GENERATOR. 15. Special Handling Instructions and Additional Information , 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, p marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the preif I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste me ed to the degree I have determined to be economically practicable and p present and future threat to human health and the environment; OR, site management method that is available to me and that I can afford. Printed Pyped Name CHWEN 17. Transporter Chrowledgement of Receipt of Materials
Printed/Typed Name Day POU 01 18. Transporter 2 Acknowledgement of Receipt of Materials Date Month Day Printed/Typed Name Signature Ė 19. Discrepancy Indication Space 20. Designated Facility Owner or Operator: Certification of receipt and handling of hazardous materials covered by this manifest except as noted/in item, 19. Day nne

00-22 (Rev. 4-90) MDNR-HWG 10 PREVIOUS EDITIONS ARE OBSOLETE

5-030-01

MISSOURI DEPARTMENT OF NATURAL RESOURCES

HAZARDOUS WASTE MANIFEST

0 - 0 0 0 0 1 CTF "TIONS FOR THE CO + FLETIO: CT TE IN FORT WRE ON	Division of Environmental Qua Waste Management Program	,	.0		E	EMERGENON FERPON
REMERSIA THIS BOX PARTS WASHER	P.O. Box 176 Jefferson City, Misso 314-751-3176					1-00 424-8000 CHEM TPEO 1-800-424-9300
SHIPMEN	HAZARDOUS WASTE MA	ANIFES	T		DEPT	7. OF NATURAL RESO 314-654-2435
Please print or type (Form designed for use on eli UNIFORM HAZARDOUS	Generator's US EPA ID No. Manifest Doc	cument No.	Form Ap		No. 2050-0039 formation in the si	9. Expires 9-30-92
WASTE MANIFEST	MOD 092351642	0004	of	is	required by State	Law.
3. Generator's Name and Mailing Address SILVANUS PRODUCTS I	NC		A. Missou O O	ri Manifest Docu 1 6 5	ment Number 0	004
40 MERCHANT ST ST GENEVIEVE 4. Generator's Phone (314) 883-352	MD 63670		MAC	Sen, Site Addre	· IL	Lic.
5. Transporter 1 Company Name SAFETY-KLEEN CORP.	6. US EPA ID Number MOD 0006690	51		ansporter's ID	H-1273	413-78
7. Transporter 2 Company Name	8. US EPA ID Number		E MO.Tr	ansporter's ID "		
9. Designated Facility Name and Site Address	10. US EPA ID Number		G. State F	acility's ID		412472
SAFETY-KLEEN CORP.	5-030-01			a Phone		
ROUTE 2, BOX 549-D CAPE GIRARDEAU, MO	63701 MOD 0006690	51	1.50	314 3	35-1612	
11. US DOT Description (Including Proper Shipping Na	ame, Hazard Class, and ID NUMBER)	12. Containe	ers	13. Total Quantity	14. Unit Wt/Vol.	1. Waste No.
a. WASTE PETROLE	UM NAPHTHA			Quantity		WASTE CODE DOO'1
G	UM NAPHTHA UN1255(DOO1)(ERG #27)	111	DM	45	P STATE	E
b.					EPAY	WASTE CODE
E R					STATE	
A					EPA Y	WASTE CODE
R					STATE	
d.					EPAY	Wate Code
					STATE	
J. Additional Descriptions for Materials Listed Above		К. Н	andling Co		Only)	on employ (ex-
a DOST DOLE	3 20 . 6	a. b.=		02 154	******	J. 11 10 10 10 10 10 10 10 10 10 10 10 10
C. d.		Green			100 000	
15. Special Handling Instructions and Additional Inform		4 5 –03d	-01-	9103 0		
EMERGENCY RESP#708-8		1 B:		c·	D:	
16. GENERATOR'S CERTIFICATION: I hereby declar	re that the contents of this consignment are fully and accu	urately described	above by	proper shipping	name and are o	classified, packed,
state regulations.	re a program in place to reduce the volume and toxicity of was					
that I have selected the practicable method of treats if I am a small quantity generator, I have made a g	ment, storage, or disposal currently available to me which mit ood faith effort to minimize my waste generation and select t	nimizes the prese	ent and futu	re threat to hum	an health and the vailable to me and	environment; OR, ad that I can afford.
Printed/Typed Name JBRNON T SCHW	Signature	TH	wer	1	Month O	7892
17. Transporter 1 Acknowledgement of Receipt of Mate)		Date
Printed Pyped Name RANAY FIS	H Signature Ran	Sy F	المد		1645	1/8/92
18. Transporter 2 Acknowledgement of Receipt of Mater Printed/Typed Name	erials Signature		9		Month	Date Day Year
HARMON T. SCHUB	Ht Henn	The	my	_		
19. Discrepancy Indication Space F Yover Ator 518 Ned	in WRONG Place Li	Ne 18	ER	OR C	orrect	ad
Ĉ	•		4			
L						
20. Designated Facility Owner or Operator: Certification Printed/Typed Name	n of receipt and handling of hazardous materials covered by t Signature	this manifest exce	ept as note	d in Item 19.	Monti	th Day Year
Eileen Jenkerson	S'lean	Qr h	4 4	~	•	51/18192
PA Form 8700-22 (Rev. 4-90) MDNR-HWG 10 PREVIOUS	EDITIONS ARE ORSOLETE	1				

			MANIFEST LO	OG				
			"HAZARDOUS"	WASTE			SHIPPIN	G LOG
Silva	nus Pro	ducts, Inc.						PAGE /
SHIP DĂTÊ	P.O. No	MANIFEST No.	SIL SEQUENCE NO.	CONSIGNEE	PRODUCT DESCRIPTION	TOTAL QUANTITY SHIPPED	No DRUMS	
2-18-19	28422	P-38722	0000	SAFETY-HLEEN	PARTS WASHER Jobsens	45 16	1	
3/17/92	28756	00001	0001	11 1	West Rays Foo3	65714	2	
1/7/92	28474	64131	0002	1. 1.	Parts Worker Solvent	65-26	1	
1/30/52	29230	00003	0003	ic •	Waste Page 1003	822 ch	2	
1/1/92	29425	00003	0004	10 4	PARTS WASHER Johnson Tours Parts Worker Johnson Foods Parts Worker Johnson David Practe Rags FOODS Parts Worker Rouge FOODS Parts Plant 2000	45-16	1	
,			,					
						 		
		,						
			-					ii.



Safety-Kleen Wastestream Descriptions

...JECT: PREQUALIFICATION BRANCH/SUBMITTER: 503001

18 - R227; (RUN 11/25/91) PREQUALIFICATION EVALUATION - BRANCH INDUSTRIAL SERVICES

GENERATOR SURVEY

COMPLETED: REVISED: PAGE 11/25/91

11/25/91

WASTE RAGS

ACCEPT

CAPE GIRARDEAU

CLOTH RAGS

S.Screen & Printing

safety-kleen

ACCEPI

CONTROL #: 0000118948-4 LAB #:

0000028748-1 SURVEY #:

0000233416

CUSTOMER INFORMATION: 5030-01-9103

FLUID RECOVERY SERVICES

SILVANUS PRODUCTS INC

FEDERAL EPA ID:

MOD092351642

STATE EPA ID: 01659

SILVANUS PRODUCTS INC

40 MERCHANT ST

ST GENEVIEVE

MO 63670

ATTN: URBAN KLEIN

BRANCH: 503001 - CAPE GIRARDEAU

BENERATOR: SILVANUS PRODUCTS INC HATURE OF BUSINESS: MNFG SILKSCREEN

EDERAL EPA ID: MODO92351642 IL:

S. I. C. NO: ST:

1659 BILLING:

ID: STATUS:

ACILITY ADDRESS: FOR MANIFEST 40 MERCHANT ST

ATT VERNON SCHWENT

ST GENEVIEVE MO 63670

ENERAL DESCRIPTION: ROCESS DESCRIPTION:

CLOTH RAGS

FROM CLEANING GENERATION AMOUNT: 55

AMOUNT ON HAND:

GALLONS PER WEEK 55 IN DRUMS

PHYSICAL STATE:

SHIPPING FREQUENCY: COLOR:

4 WK MULTI

IN DRUMS

LAYERS OR PHASES: ONE

ATTACHMENTS: NONE

PCT SOLIDS NOT SAMPLED:

PH RANGE:

4-10

ATERIAL COMPOSITION: VOL% PASTE

VISCOSITY: MEDIUM MAX TYPICAL

ON-VOLATILE RESIDUE **JLVENTS**

NVR S

CODE

85.00

15.00

ESTRICTED SUBSTANCES: NONE

HAZARD CLASS:

NUMBER:

NEED ASSISTANCE

A WASTE DESCRIPTION AND TREATMENT STANDARDS: RCRA HAZARDOUS WASTE:

LISTED EPA WASTE CODES: F003

0. NO: 27192

TYPE OF SAMPLE: COMPOSITE # OF DRUMS SAMPLED:

TAKEN BY: SK REP

EPA WASTE CODES F003 D001

ME: URBAN KLEIN

MMENTS: L#28748-1

TITLE: PRES

10/28/1991 (314) 883-3521

ORPORATE REVIEWS: DISPOSITION REVIEWER TECHNICAL:

ACCEPT

DATE JHP 11/22/91

POSSIBLE FACILITIES:

PRICING CODE: F8

REGULATORY: OPERATING:

ACCEPT ACCEPT

AAD 11/22/91 JWH 11/22/91

658

654 000161

PPROVED FACILITIES:

(658) SAFETY-KLEEN CORP

(654) SAFETY-KLEEN CORP

STATE HWY 146 NEW CASTLE KY 40050

633 EAST 138TH ST DOLTON IL 60419

FED EPA#: KYD053348108

ILD980613913

TATE EPA#: TELEPHONE: 502/845-2453 0310690006

708/849-4850

TATE CODE:

000161

PROVD 0001145 DRUM OR BULK

)T-EPA RQ WASTE COMPOUND, CLEANING, LIQUID

FLAMMABLE LIQUID NA 1993

(FOO3)(ERG# 27) IMMENTS: OK FOR THERMAL DESTRUCTION. FRS PART 82108.

THIS SERVES AS NOTICE PER, 40CFR264.12(B), THAT THE FACILITY(IES) NOTED ABOVE HAS THE APPROPRIATE PERMITS AND IS WILLING TO RECEIVE THE MATERIAL DESCRIBED.

80918 - R2271 (RUN 11/25/91) PREQUALIFICATION EVALUATION - BRANCH INDUSTRIAL SERVICES PAGE MATERIAL ANALYSIS COMPLETED: 11/25/91 BRANCH/SUBMITTER: 503001 REVISED: 11/25/91 KEN WALLS ACCEPT ACCEPT SILVANUS PRODUCTS INC CONTROL #: 0118948-4 CLOTH RAGS SURVEY #: 233416 GENERAL ANALYSIS OF TOTAL SAMPLE COLOR BLACK RED PINK NON-VOLATILE RESIDUE: 49.3 WT% DESCRIPTION: SOLID FLAMMABILITY : FLASHED AT 140 F BY SETAFLASH FLAMMABILITY : FLASHED AT 100 F BY SETAFLASH PH EXTRACT BY METER 9.3 RADIOACTIVITY : NONE DETECTED COMMENTS: RAG/BULK DENSITY FUEL EVALUATION OF TOTAL SAMPLE HEAT CONTENT: 11100 BTU/LB ASH UPON COMBUSTION: < 1.0 WT% TOTAL CHLORINE CL: O.2 WT% TOTAL BROMINE BR: < 0.1 WT% TOTAL FLUORINE F : < 0.1 WT% TOTAL SULFUR S : < 0.1 WT% GENERAL COMPOSITION: GENERAL COMPOSITION BY: SPECIFIC VISCOSITY APPEARANCE TOTAL GRAVITY (CENTIPOISE) (VOL%) AQUEOUS PHASE (FREE WATER)..... (WT %) ORGANIC PHASE (FEEDSTOCK).... 0.0 0.0 0.0 BOTTOM SLUDGE (SEMISOLIDS).... 0.0 0.0 0.0 100.0 TOTAL .500 > 50000 CPS 100.0 100 0 SPECIFIC COMPOSITION OF TOTAL SAMPLE COMPOSITION OF: TOTAL TOTAL SAMPLE SAMPLE WATER CONTENT..... (WT%) (WT%) 0.0 0.0 NON-VOLATILE RESIDUE DESCRIPTION: SOLID VOLATILE ORGANICS BY DIFFERENCE..... 49 3 49.3 50.7 50.7 TOTAL 100.0 100.0 VOLATILE ORGANIC COMPOSITION OF TOTAL SAMPLE BY GAS CHROMATOGRAPHY SAMPLE PREPARATION METHODS: CS2-EXTRACT DETECTION METHODS : FID, FID, MASS-SPEC COMPOSITION OF: VOLATILE VOLATILE TOTAL ORGANICS ORGANICS SAMPLE COMPOUND NAME CODE CAS NUMBER (WT%) (WT%) (WT%) XYLENES (ORTHO-, META-, AND PARA-) XYLS 1330-20-7 40.0 40.0 20.3 METHYL ISOBUTYL KETONE MIBK 108-10-1 18.1 18.1 9.2 PROPYL ACETATE, ISO-IPAC 108-21-4 16.1 16.1 8.2 ETHYLBENZENE FTR 100-41-4 15.6 15.6 7.9 PROPYL ALCOHOL, ISO-IPA 67-63-0 5.4 5.4 2.7 TOTAL OTHERS (<1.0% EACH) TO 0-05-5 3.1 3.1 VINYLPYRROLIDONE, N-1.6 NVP 88-12-0 1.7 1.7 0.9 TOTAL 100.0 100.0 50 7 SUMMARY OF VOLATILE ORGANIC COMPOSITION BY COMPOUND CHEMICAL CLASS WT%: ALCOHOLS 5.4 ALIPHATIC HYDROCARBONS AROMATIC HYDROCARBONS 55.6 CHLORINATED SOLVENTS **ESTERS** 16.1 **ETHERS** GLYCOL ETHERS INHIBITORS KETONES 18.1 NITROGEN COMPOUNDS

SPECIFIC ORGANIC COMPOSITION

POLYCHLORINATED BIPHENYLS (PCBS): NONE DETECTED < SAFETY-KLEEN REGULATED COMPOUNDS: NONE DETECTED

_ABORATORY REVIEW: R _EVEL:

HIGH VISCOSITY.

SEG CODE: _AB REVIEWERS: AJ AJ

RELEASED: 11/25/91 ANALYZED: 11/22/91

TRACKING INFORMATION: SURVEY RECEIVED :

DATE **FACILITY** 11/14/91 SK TECHNICAL CEN

SAMPLE RECEIVED : 10/31/91

RESAMPLE SHIPPED :

RESAMPLE RECEIVED:

THE ANALYSES CONTAINED HEREIN ARE PERFORMED SOLELY FOR THE PURPOSE OF QUALIFYING THE ANALYZED MATERIALS FOR ACCEPTANCE BY SAFETY-KLEEN IN ACCORDANCE WITH ITS PERMITS AND PROCESSING CAPABILITY.

OTICE OF LAND DISPOSAL RESTRICTION OF WASTE IS REQUIRED UNDER 40 CFR PART 268. PA WASTE CODES FOR LDR: F003 D001

CONTINUED ON NEXT DAGE

80918 - R2271 (RUN 11/25/91) PREQUALIFICATION EVALUATION - BRANCH INDUSTRIAL SERVICES

MATERIAL ANALYSIS

PAGE

COMPLETED: 11/25/91

KEN WALLS

BRANCH/SUBMITTER: 503001

REVISED: 11/25/91

3

ACCEPT

ACCEPT

SILVANUS PRODUCTS INC

CLOTH RAGS

CONTROL #: 0118948-4 SURVEY #: 233416

ANALYSIS DOES NOT INDICATE THAT MATERIAL IS CALIFORNIA LIST HALOGENAT D ORGANIC COMPOUND WASTE.

NOTICE OF LAND DISPOSAL RESTRICTION OF WASTE

TO	SAFETY-KLEEN CORP EF	24 10 410	1 50000040040		
	SAFETY-KLEEN CORP EF	A 10 NO:1	LD980613913		
	DOLTON IL 60419				
Un		b			
Ge	nerator noted below is shipping to you a wa	mber (he restricted u	nder 10 CRE	Part
20	o. In accordance with 40 CFR 268.7, the	generator hereby of	rovides notice t	hat the waste	e is
res	tricted and the EPA waste code and the app	propriate treatment	standards are as	s follows:	
EP	A Waste Codes: F003 D001				
	F001-F005 Spent Solvents		NT STANDARDS		
	Regulated Hazardous Constituent	Wastewate w/Solvents			
	Acetone	0.05	0.59		55.7
	Benzene	0.07	3.7		-
	n-Butyl alcohol	5.0	5.0		-
	Carbon disulfide	1.05	4.81		_
	Carbon tetrachloride Chlorobenzene	0.05	0.96	-	
	Cresols (and crestyic acid)	0.15	0.05		
	Cyclohexanone	2.82	0.75		•
	1,2-Dichlorobenzene	0.125	0.75	x x	•
	Ethyl acetate	0.68	0.125		
	Ethyl benzene	0.05 0.05	0.75		
	Ethyl ether	0.05	0.053 0.75	<u> </u>	•
	Isobutanol	5.0	5.0		•
	Methanol	0.25	0.75		
	Methylene chloride	0.2	0.96	-	
	Methylene chloride(from Pharm, Industry	0.44	0.96	-	
	Methyl ethyl ketone	0.05	0.75		
	Methyl isobutyl ketone	0.05	0.33	X	
	Nitrobenzene	0.65	0.125		
	Pyridine	1.12	0.33		
	Tetrachloroethlyene	0.079	0.05		
	Toluene	1.12	0.33		
	1, 1, 1 – Trichloroethane	1.05	0.41		
	1, 1, 2 – Trichloroethane 1, 1, 2 – Trichloro – 1, 2, 2 – trifluoroethane	0.03	7.6		
	Trichlorethylene	1.05	0.96		
	Trichlorofluoromethane	0.062 0.05	0.091		
	Xylene	0.05	0.96 0.15	. <u>X</u>	
		0.00	0.15		
	California List Prohibited Wastes	Level (mg/l)	Treatme	ent Standard	
	Halogenated Organic Compounds	1000.0	Incinera	tion	These treatment standards
	Arsenic (As) Nonwastewaters Mercury (Hg) Nonwastewaters	500.0	None		do not preclude solvent
	Nickel (Ni)	20.0	None		recovery prior to disposa
	Thallium (TI)	134.0	None		Subsequent disposal of
	Chlorinated Biphenyls (PCB's)	130.0 50.0	None		unrecovered waste is
		50.0	Incinerat		subject to these standard
Vaste Desc	riptions and/or Treatment Subcategory	Treatment Standar	ds Reference in	40 CFR	Check All
Vaste Code	Description	and Technology C	codes for 40 CF	R 268.42(a)	That Apply
001:	Wastewaters (<1.0 wt% TOC and TSS)	Wastewaters	Nonwastev	<u>wate</u> rs	
	Low TOC Ignitable Liquids (<10 wt% TOC)	268.42(a) DEACT		55465	
	High TOC Ignitable Liquids (>10 wt% TOC)	NΔ	268.42(a)	BORCS FOLI	DC INICINI V
002	Corrosives, all subcategories & CA list	268.42(a) DEACT	268.42(a)	DEACT	BS, or INCIN X
004	Arsenic (As)	268.43(a)	268.41(a)		Variance until 5-8-92
005	Barium (Ba)	268.43(a)	268.41(a)		variance until 5-8-92
006	Cadmium (Cd)	268.43(a)	268.41(a)		
007	Chromium (Cr)	268.43(a)	268.41(a)		
008 009:	Lead (Pb)	268.43(a)	268.41(a)		
JUS.	Low Mercury Subcategory (<260 ppm Hg)	268.43(a)	268.41(a)		Variance until 5-8-92
010	High Mercury Subcategory (>=260 ppm Hg) Selenium (Se)		268.42(a)	RMERC	Variance until 5-8-92
11	Silver (Ag)	268.43(a)	268.41(a)		
	See attachment for supplemental list	268.43(a)	268.41(a)		
		I.			
	erator Name: SILVANUS PRODUCTS INC				
Gen	erator Representative Signature:				
	ne & Title of Representative:				
	_	Control N			

SAFETY-KLEEN CORP

PREQUALIFICATION EVALUATION

FLUID RECOVERY SILVANUS PRODUCTS INC

MANIFESTING INFORMATION

REVISED : 11/25/91

CONTROL#: 0118948-4 SAMPLE# : 233416

REQUIRED MANIFEST FORM:

Safety-Kleen Corp. provides this man festing information for instructional purposes only. All the information is believed to be accurate, but is known to be incomplete. Federal and State regulations and the instructions on the manifest form shou be consulted for complete information. In addition, certain variations may be allowed by regulations, but need to be approve by a Safety-Kleen representative prior to shipment.

3. GENERATOR NAME AND MAILING ADDRESS SILVANUS PRODUCTS INC 40 MERCHANT ST ATT VERNON SCHWENT ST GENEVIEVE M0 63670 4. GENERATOR PHONE (314) 883-3521 5. TRANSPORTER 1 COMPANY NAME SAFETY-KLEEN CORP. 7. TRANSPORTER 2 COMPANY NAME 9. FACILITY NAME AND SITE ADDRESS SAFETY-KLEEN CORP 633 EAST 1381H ST DOLTON IL 60419 10. US EPA ID NUMBER ILD980613913 11. US DOT DESCRIPTION (INCLUDING ALL PARTS REQUIRED BY US DOT) CONTAINER I. WASTE RQ WASTE COMPOUND, CLEANING, LIQUID FLAMMABLE LIQUID NA1993 (FOO3) (ERG# 27) DRUM OR BULK FOO: OOO	UNIFORM HAZARDOUS	1. GENERATOR US	EPA NO.	DOCUMENT NO.	2. PAGE	
SILVANUS PRODUCTS INC 40 MERCHANT ST ATT VERNON SCHWENT ST GENEVIEVE MO 63670 8. STATE GENERATORS ID 01659 5. TRANSPORTER 1 COMPANY NAME SAFETY-KLEEN CORP. 7. TRANSPORTER 2 COMPANY NAME SAFETY-KLEEN CORP. 9. FACILITY NAME AND SITE ADDRESS SAFETY-KLEEN CORP 633 EAST 138TH ST DOLTON IL 60419 10. US EPA ID NUMBER SAFETY-KLEEN CORP 11. US DOT DESCRIPTION (INCLUDING ALL PARTS REQUIRED BY US DOT) 11. US DOT DESCRIPTION (INCLUDING ALL PARTS REQUIRED BY US DOT) CONTAINER RQ WASTE COMPOUND, CLEANING, LIQUID FLAMMABLE LIQUID NA1993 (FOO3) (ERG# 27) C. STATE TRANS ID D. TRANSPORTER PHONE E. STATE TRANS ID F. TRANSPORTER PHONE C. STATE TRANS ID D. TRANSPORTER PHONE F.	WASTE MANIFEST	WASTE MANIFEST MODO92351				UNDERLINED AREA ARE REQUIRED
SILVANUS PRODUCTS INC 40 MERCHANT ST ATT VERNON SCHWENT ST GENEVIEVE MO 63670 8. STATE GENERATORS ID 01659 5. TRANSPORTER 1 COMPANY NAME SAFETY-KLEEN CORP. 7. TRANSPORTER 2 COMPANY NAME 8. US EPA ID NUMBER F. TRANSPORTER PHONE 9. FACILITY NAME AND SITE ADDRESS SAFETY-KLEEN CORP G33 EAST 138TH ST DOLTON IL 60419 10. US EPA ID NUMBER TLD980613913 11. US DOT DESCRIPTION (INCLUDING ALL PARTS REQUIRED BY US DOT) CONTAINER RQ WASTE COMPOUND, CLEANING, LIQUID FLAMMABLE LIQUID NA1993 (F003) (ERG# 27) DOLONAL DESCRIPTION FOR MATERIALS LISTED ABOVE ADDITIONAL DESCRIPTION FOR MATERIALS LISTED ABOVE K. HANDLING CODES FOR WASTI	3. GENERATOR NAME A	ND MAILING ADDRE	SS		A. STATE MANIFES	ST DOCUMENT NUMBER
4. GENERATOR PHONE (314) 883-3521 5. TRANSPORTER 1 COMPANY NAME 6. US EPA ID NUMBER C. STATE TRANS ID D. TRANSPORTER PHONE - 7. TRANSPORTER 2 COMPANY NAME 8. US EPA ID NUMBER E. STATE TRANS ID F. TRANSPORTER PHONE - 9. FACILITY NAME AND SITE ADDRESS SAFETY-KLEEN CORP ILD980613913 10. US EPA ID NUMBER G. FACILITY STATE ID 0310690006 H. FACILITY PHONE 708-849-4850 11. US DOT DESCRIPTION (INCLUDING ALL PARTS REQUIRED BY US DOT) 12. RQ WASTE COMPOUND, CLEANING, LIQUID FLAMMABLE LIQUID NA1993 (F003) (ERG# 27) 13. ADDITIONAL DESCRIPTION FOR MATERIALS LISTED ABOVE 14. ADDITIONAL DESCRIPTION FOR MATERIALS LISTED ABOVE 15. K. HANDLING CODES FOR WASTE DOOL 10. TRANSPORTER PHONE - 16. US EPA ID NUMBER E. STATE TRANS ID D. TRANSPORTER PHONE - 17. TRANSPORTER PHONE - 18. US EPA ID NUMBER E. STATE TRANS ID D. TRANSPORTER PHONE - 19. FACILITY STATE ID 0310690006 H. FACILITY STATE ID 0310690006 H. FACILITY PHONE 708-849-4850 11. US DOT DESCRIPTION (INCLUDING ALL PARTS REQUIRED BY US DOT) 13. ADDITIONAL DESCRIPTION FOR MATERIALS LISTED ABOVE 14. ADDITIONAL DESCRIPTION FOR MATERIALS LISTED ABOVE 15. K. HANDLING CODES FOR WASTE	40 MERCHANT ST ATT VERNON SCHWEN	IT	3670			_
5. TRANSPORTER 1 COMPANY NAME SAFETY-KLEEN CORP. 7. TRANSPORTER 2 COMPANY NAME 8. US EPA ID NUMBER E. STATE TRANS ID F. TRANSPORTER PHONE 9. FACILITY NAME AND SITE ADDRESS SAFETY-KLEEN CORP 633 EAST 138TH ST DOLTON IL 60419 11. US DOT DESCRIPTION (INCLUDING ALL PARTS REQUIRED BY US DOT) CONTAINER 1. WASTE RQ WASTE COMPOUND, CLEANING, LIQUID FLAMMABLE LIQUID NA1993 (FOO3) (ERG# 27) D. TRANSPORTER PHONE F. TRANSPORTER PHONE	4. 651/504.705	(0.11)	-		B. STATE GENERAT	ORS ID
SAFETY-KLEEN CORP. 7. TRANSPORTER 2 COMPANY NAME 8. US EPA ID NUMBER E. STATE TRANS ID F. TRANSPORTER PHONE 9. FACILITY NAME AND SITE ADDRESS SAFETY-KLEEN CORP 633 EAST 138TH ST DOLTON IL 60419 11. US DOT DESCRIPTION (INCLUDING ALL PARTS REQUIRED BY US DOT) 11. US DOT DESCRIPTION (INCLUDING ALL PARTS REQUIRED BY US DOT) RQ WASTE COMPOUND, CLEANING, LIQUID FLAMMABLE LIQUID NA1993 (FOO3) (ERG# 27) D. ADDITIONAL DESCRIPTION FOR MATERIALS LISTED ABOVE K. HANDLING CODES FOR WASTI			1		<u>o</u>	1659
7. TRANSPORTER 2 COMPANY NAME 8. US EPA ID NUMBER E. STATE TRANS ID F. TRANSPORTER PHONE 9. FACILITY NAME AND SITE ADDRESS SAFETY-KLEEN CORP 633 EAST 138TH ST DOLTON IL 60419 11. US DOT DESCRIPTION (INCLUDING ALL PARTS REQUIRED BY US DOT) CONTAINER RQ WASTE COMPOUND, CLEANING, LIQUID FLAMMABLE LIQUID NA1993 (FOO3) (ERG# 27) DRUM OR BULK FOO: C. HANDLING CODES FOR WASTE K. HANDLING CODES FOR WASTE DRUM K. HANDLING CODES FOR WASTE FOO: C. HANDLING CODES FOR WASTE C. STATE TRANS ID F. TRANSPORTER PHONE F. TRANSPORTER G. FACILITY STATE O'310690006 H. FACILITY STATE O'3106	5. TRANSPORTER 1 COM	IPANY NAME	6. US EPA ID NU	MBER	C. STATE TRANS II	D
7. TRANSPORTER 2 COMPANY NAME 8. US EPA ID NUMBER F. TRANSPORTER PHONE 9. FACILITY NAME AND SITE ADDRESS SAFETY-KLEEN CORP 633 EAST 138TH ST DOLTON IL 60419 11. US DOT DESCRIPTION (INCLUDING ALL PARTS REQUIRED BY US DOT) RQ WASTE COMPOUND, CLEANING, LIQUID FLAMMABLE LIQUID NA1993 (FOO3)(ERG# 27) D. ADDITIONAL DESCRIPTION FOR MATERIALS LISTED ABOVE K. HANDLING CODES FOR WASTI	SAFETY-KLEEN CORP				D. TRANSPORTER P	PHONE
9. FACILITY NAME AND SITE ADDRESS SAFETY-KLEEN CORP 633 EAST 138TH ST DOLTON IL 60419 11. US DOT DESCRIPTION (INCLUDING ALL PARTS REQUIRED BY US DOT) 2. RQ WASTE COMPOUND, CLEANING, LIQUID FLAMMABLE LIQUID NA1993 (F003)(ERG# 27) D. ADDITIONAL DESCRIPTION FOR MATERIALS LISTED ABOVE K. HANDLING CODES FOR WASTE K. HANDLING CODES FOR WASTE K. HANDLING CODES FOR WASTE DOLTON IL STATE ID 0310690006 H. FACILITY STATE ID 0310690006 H. FACILITY PHONE 708-849-4850 D. ONTAINER I. WASTE DRUM OR BULK FOO: 000	7. TRANSPORTER 2 COM	IPANY NAME	8. US EPA ID NU	MBER		
9. FACILITY NAME AND SITE ADDRESS SAFETY-KLEEN CORP 633 EAST 138TH ST DOLTON IL 60419 11. US DOT DESCRIPTION (INCLUDING ALL PARTS REQUIRED BY US DOT) RQ WASTE COMPOUND, CLEANING, LIQUID FLAMMABLE LIQUID NA1993 (F003) (ERG# 27) 12. US EPA ID NUMBER ILD980613913 13. US EPA ID NUMBER ILD980613913 14. FACILITY STATE ID 0310690006 H. FACILITY PHONE 708-849-4850 CONTAINER I. WASTE DRUM OR BULK F000 000 DRUM OR BULK F001 DRUM OR BULK F001 K. HANDLING CODES FOR WASTE						
RQ WASTE COMPOUND, CLEANING, LIQUID FLAMMABLE LIQUID NA1993 (F003)(ERG# 27) DRUM OR BULK F003 000 K. HANDLING CODES FOR WASTI	SAFETY-KLEEN CORP 633 EAST 138TH ST		14		G. FACILITY STATE 0310690006 H. FACILITY PHONE	ID
RQ WASTE COMPOUND, CLEANING, LIQUID FLAMMABLE LIQUID NA1993 (F003)(ERG# 27) DRUM OR BULK F003 000 DRUM OR BULK F003 000 K. HANDLING CODES FOR WASTE D001	11. US DOT DESCRIPTION	N (INCLUDING ALL F	PARTS REQUIRED B	Y US DOT)	CONTAINER	I. WASTE NO
J. ADDITIONAL DESCRIPTION FOR MATERIALS LISTED ABOVE K. HANDLING CODES FOR WASTI	RQ WASTE COMPOUND FLAMMABLE LIQUID I	, CLEANING , LIQUII NA 1993)		DRUM OR BULK	F003 000161
DOO1	o.					
DOO1	J. ADDITIONAL DESCRIPTI	ON FOR MATERIAL	S LISTED ABOVE		K HANDLING CODES	S FOR MASTES AROUS

CONTROL NO 0118948-4 SAMPLE NO 233416 CUSTOMER NUMBER 5-030-01-9103 -FOR ALL SAFETY-KLEEN SHIPMENTS

EMERG RESP# 708-888-4660 24 HR

SK-DOT NUMBERS A: 0001145 B:

NOTICE OF LAND DISPOSAL RESTRICTION OF WASTE IS REQUIRED

NOTICE OF LAND DISPOSAL RESTRICTION OF WASTE

TO	SAFETY-KLEEN CORP EF	PAID NO: KY	D053348108		
	STATE HWY 146		202040 100		
	NEW CASTLE KY 40050				
Ger 26	der manifest number line num nerator noted below is shipping to you a wa 8. In accordance with 40 CFR 268.7, the o tricted and the EPA waste code and the app	generator hereby pro	be restricted under	40 CRF F) art
EP	A Waste Codes: F003 D001				
	F001-F005 Spent Solvents		STANDARDS (mg/	(1)	
	Regulated Hazardous Constituent	Wastewater w/Solvents	All Other Solvent Wastes	Check A That App	
	Acetone	0.05	0.59		<u></u>
	Benzene n-Butyl alcohol	0.07	3.7		
	Carbon disulfide	5.0	5.0		
	Carbon tetrachloride	1.05	4.81	-	
	Chlorobenzene	0.05 0.15	0.96		
	Cresols (and crestyic acid)	2.82	0.05 0.75		
	Cyclohexanone	0.125	0.75		
	1,2-Dichlorobenzene	0.68	0.73	-	
	Ethyl acetate	0.05	0.75		
	Ethyl benzene	0.05	0.053	X	
	Ethyl ether	0.05	0.75		
	Isobutanoi	5.0	5.0		
	Methanol Methylone ablasida	0.25	0.75		
	Methylene chloride	0.2	0.96		
	Methylene chloride(from Pharm. Industry Methyl ethyl ketone		0.96		
	Methyl isobutyl ketone	0.05 0.05	0.75		
	Nitrobenzene	0.65	0.33	<u> </u>	
	Pyridine	1.12	0.125 0.33	-	
	Tetrachloroethlyene	0.079	0.05		
	Toluene	1.12	0.33		
	1, 1, 1 - Trichloroethane	1.05	0.41	~~~	
	1, 1, 2 - Trichloroethane	0.03	7.6		
	1,1,2-Trichloro-1,2,2-trifluoroethane	1.05	0.96		
	Trichlorethylene	0.062	0.091		
	Trichlorofluoromethane Xylene	0.05	0.96	X	
	Aylene	0.05	0.15	<u> </u>	
	California List Prohibited Wastes	Level (mg/l)	Treatment S	standard	
	Halogenated Organic Compounds	1000.0	Incineration		These treatment standards
	Arsenic (As) Nonwastewaters	500.0	None		do not preclude solvent
	Mercury (Hg) Nonwastewaters	20.0	None		recovery prior to dispose
	Nickel (Ni) Thallium (TI)	134.0	None		Subsequent disposal of
	Chlorinated Biphenyls (PCB's)	130.0	None		unrecovered waste is
	Childrinated biphenyls (PCBs)	50 .0	Incineration		subject to these standard
Waste Descr	riptions and/or Treatment Subcategory	Treatment Standard	s Reference in 40	CER C	heck All
		and Technology Co	des for 40 CFR 2	68 42(a) TI	nat Anniv
	Description	Wastewaters	Nonwastewate	rs	iat Apply
D001:	Wastewaters (<1.0 wt% TOC and TSS)	268.42(a) DEACT_	NA	1	
	Low TOC Ignitable Liquids (<10 wt% TOC)	NA	268.42(a) DEA		
D002	High TOC Ignitable Liquids (>10 wt% TOC) Corrosives, all subcategories & CA list	NA	268.42(a) ROP	RGS, FSUBS	s, or INCIN X
D004	Arsenic (As)	268.42(a) DEACT_	268.42(a) DEA		
D005	Barium (Ba)	268.43(a)	268.41(a)	V	ariance until 5-8-92
D006	Cadmium (Cd)	268.43(a) —	268.41(a)		
D007	Chromium (Cr)	268.43(a)	268.41(a) 268.41(a)		
D008	Lead (Pb)	268.43(a)	268.41(a)		
D009:	Low Mercury Subcategory (<260 ppm Hg)	268.43(a)	268.41(a)		ariance until 5-8-92
0010	High Mercury Subcategory (>=260 ppm Hg)	268.43(a)	268.42(a) RME		ariance until 5-8-92
D010 D011	Selenium (Se)	268.43(a)	268.41(a)		
	Silver (Ag) See attachment for supplemental list	268.43(a)	268.41(a)		
other codes	See attachment for supplemental list	_			
		EF	-		
Gen	erator Representative Signature:				
	e & Title of Representative:				
Safe	ety-Kleen Sample Number: 233416	Control Nice	mhor:	10040	

PREQUALIFICATION EVALUATION

FLUID RECOVERY SILVANUS PRODUCTS INC MANIFESTING INFORMATION

REVISED : 11/25/91

CONTROL#: 0118948-4 SAMPLE# : 233416

REQUIRED MANIFEST FORM:

SK-DOT NUMBERS A: 0001145 B:

NOTICE OF LAND DISPOSAL RESTRICTION OF WASTE IS REQUIRED

Safety-Kleen Corp. provides this manifesting information for instructional purposes only. All the information is believed to be accurate, but is known to be incomplete. Federal and State regulations and the instructions on the manifest form shoul be consulted for complete information. In addition, certain variations may be allowed by regulations, but need to be approved by a Safety-Kleen representative prior to shipment.

UNIFORM HAZARDOUS WASTE MANIFEST 1. GENERATOR US MODO923518			DOCUMENT NO.	2. PAGE	UNDERLINED AREA. ARE REQUIRED	
3. GENERATOR NAME A	ND MAILING ADDRE	SS		A. STATE MANIFEST	DOCUMENT NUMBER	
SILVANUS PRODUCTS 40 MERCHANT ST ATT VERNON SCHWEN ST GENEVIEVE		3670		B. STATE GENERATO	_	
4. GENERATOR PHONE	(314) 883-352	1		01	659	
5. TRANSPORTER 1 COM		6. US EPA ID NU	JMBER	C. STATE TRANS ID		
SAFETY-KLEEN CORF						
7. TRANSPORTER 2 COM		8. US EPA ID NU	IMBER	D. TRANSPORTER PH	HONE	
7. MANOFORTER 2 CON	AL MAINE	0. 03 LI A ID NO	DIVIDEN	E. STATE TRANS ID		
O FACILITY NAME AND	CITE ADDRESS	10 110 504 10 1		F. TRANSPORTER PH		
9. FACILITY NAME AND SAFETY-KLEEN CORF STATE HWY 146 NEW CASTLE KY 400		10. US EPA ID N		H. FACILITY PHONE 502-845-2453		
11. US DOT DESCRIPTIO	N (INCLUDING ALL	PARTS REQUIRED I	BY US DOT)	CONTAINER	I. WASTE NO	
RQ WASTE COMPOUND FLAMMABLE LIQUID (FOO3)(ERG# 27)		D		DRUM OR BULK	<u>F003</u>	
b.	The state of the s	***************************************				
J. ADDITIONAL DESCRIPT	TION FOR MATERIAL	S LISTED ABOVE		K. HANDLING CODES	FOR WASTES ABOVE	
<u>DOO 1</u>		<u>S01/S02</u>	2/T50			
15. SPECIAL HANDLING	INSTRUCTIONS AND	ADDITIONAL INFO	RMATION			
CONTROL NO 011894	8-4 SAMPLE NO	233416 CUSTOME	R NUMBER 5-030-01-91	103 -FOR ALL SAFETY-	KLEEN SHIPMENTS	
EMERG RESP# 708-8	88-4660 24 HR					

Nun Formete

80918 - R2271 (RUN 04/14/92) PROJECT: PREQUALIFICATION

BRANCH/SUBMITTER: 503001

PREQUALIFICATION EVALUATION - BRANCH INDUSTRIAL SERVICES

GENERATOR SURVEY

COMPLETED: 03/20/92 **REVISED: 04/14/92**

ACCEPT

CAPE GIRARDEAU

* * REVISED * *

FIXER/DEVELOPER

SOLUTION

safety-kleen

ACCEPT

STATE EPA ID: 01659

FLUID RECOVERY SERVICES

SILVANUS PRODUCTS

FIXER/DEVELOPER SOLUTION(NEUTRAL)

CONTROL #: 0000131370-3 LAB #: 0000284360

0000036506-7

SURVEY #:

MOD092351642 FEDERAL EPA ID:

CUSTOMER INFORMATION: 5030-01-9103

SILVANUS PRODUCTS INC

40 MERCHANT ST

ST GENEVIEVE

MO 63670

MO:

ATTN: VERNON T SCHWENT

BRANCH: 503001 - CAPE GIRARDEAU

GENERATOR: SILVANUS PRODUCTS

NATURE OF BUSINESS: MNFG SILKSCREEN

S.I.C. NO:

BILLING:

FEDERAL EPA ID: MODO92351642

ST

STATUS: SQG

FACILITY ADDRESS: FOR MANIFEST 40 MERCHANT ST

ATT VERNON SCHWENT

ST GENEVIEVE

MO 63670

GENERAL DESCRIPTION: FIXER/DEVELOPER SOLUTION(NEUTRAL)

VOL%

PROCESS DESCRIPTION: SCRAP GENERATION AMOUNT:

55 GALLONS PER YEAR

AMOUNT ON HAND:

5 IN DRUMS

SHIPPING FREQUENCY: COLOR:

WILL CALL IN DRUMS BLACK PHYSICAL STATE:

LAYERS OR PHASES: ONE PCT SOLIDS NOT SAMPLED: LIQUID VISCOSITY:

PH RANGE:

4-10

MATERIAL COMPOSITION: AMMONIUM THIOSULFATE ETHYLENE GLYCOL

HYDROQUINONE

WATER

OIL, PETROLEUM

8.00

ID:

ATSF FG 8.00 HO 8.00

MAX

0 W

CODE

60.00 8.00

8.00

TYPICAL

POTASSIUM SULFITE SODIUM ACETATE ATTACHMENTS: MSDS

RESTRICTED SUBSTANCES: NONE

NUMBER .

NEED ASSISTANCE

EPA WASTE DESCRIPTION AND TREATMENT STANDARDS: RCRA HAZARDOUS WASTE:

OTHER EPA WASTE CODES: D001

HAZARD CLASS:

P.O. NO: 28578 TYPE OF SAMPLE: GRAB NAME: VERNON T SCHWENT

TITLE: PRODUCTION MGR

OF DRUMS SAMPLED: 03/03/1992 O TAKEN BY: SK REP

(314) 883-3521

REVISION: 04/14/1992 13:06 LORAINE GARCIA

WASTE IS DOO! DUE TO OIL PER LETTER.

************************ CORPORATE REVIEWS: DISPOSITION REVIEWER DATE

ACCEPT

TECHNICAL:

ACCEPT CAC

03/19/92

POSSIBLE FACILITIES:

PRICING CODE: FA

REGULATORY: OPERATING:

ACCEPT

CAC JWH 03/19/92 03/19/92

654 000161

APPROVED FACILITIES:

(658) SAFETY-KLEEN CORP (654) SAFETY-KLEEN CORP

STATE HWY 146 NEW CASTLE KY 40050 633 EAST 138TH ST DOLTON IL 60419

FED EPA#: KYD053348108

ILD980613913

STATE EPA#: TELEPHONE: 502/845-2453 0310690006

708/849-4850

STATE CODE: 000161

658

EPA WASTE CODES

APPROVD 0003002 DRUM OR BULK DOT-EPA RQ WASTE FLAMMABLE LIQUID, N.O.S.

OOOO888 NOT FOR MANIFEST PROPER SHIPPING DESCRIPTION WAS BASED ON

(OII)

SURVEY INFORMATION RATHER THAN ANALYSIS. SEE COMMENTS FOR DETAILS AND NOTICES.

CLASS 3 UN1993 PG III (DOO1)(ERG#27)

COMMENTS: OK FOR HAZARDOUS WASTE WATER ONLY, FRS PART 82104-A.

DOO1 BASED ON SURVEY.

THIS SERVES AS NOTICE PER, 40CFR264.12(B), THAT THE FACILITY(IES) NOTED ABOVE HAS THE APPROPRIATE PERMITS AND IS WILLING TO RECEIVE THE MATERIAL DESCRIBED.

PROJECT: PREQUALIFICATION BRANCH/SUBMITTER: 503001

80918 - R2271 (RUN 04/14/92) PREQUALIFICATION EVALUATION - BRANCH INDUSTRIAL SERVICES

GENERATOR SURVEY

PAGE

COMPLETED: 03/20/92 REVISED: 04/14/92

ACCEPT

CAPE GIRARDEAU

* * REVISED * *

ACCEPT

FLUID RECOVERY SERVICES

SILVANUS PRODUCTS

FIXER/DEVELOPER SOLUTION(NEUTRAL)

CONTROL #: 0000131370-3 LAB #: 0000036506-7 SURVEY #: 0000284360

30918 - R2271 (RUN 04/14/92) PREQUALIFICATION EVALUATION - BRANCH INDUSTRIAL SERVICES PAGE COMPLETED: 03/20/92 REVISED: 04/14/92 MATERIAL ANALYSIS BRANCH/SUBMITTER: 503001 MIKE DOWNEY ACCEPT ACCEPI * * REVISED * * FLUID RECOVERY SERVICES SILVANUS PRODUCTS CONTROL #: 0131370-3 FIXER/DEVELOPER SOLUTION(NEUTRAL) SURVEY #: 284360 GENERAL ANALYSIS OF TOTAL SAMPLE

COLOR : BROWN/DK GRAY

WATER CONTENT 76.2 WT%

NON-VOLATILE RESIDUE: 20.8 WT% DESCRIPTION: SOLID

FLAMMABILITY

FLAMMABILITY : NO FLASH AT 102 F BY SETAFLASH

PH EXTRACT BY METER 8.7

RADIOACTIVITY : NONE DETECTED

FUEL EVALUATION OF TOTAL SAMPLE

HEAT CONTENT: 1300 BTU/LB ASH UPON COMBUSTION: 7.5 WT% TOTAL CHLORINE CL: O. 1 WT% TOTAL SULFUR S : 1.6 WT% BR: < 0.1 WT% TOTAL BROMINE F : < TOTAL FLUORINE O. 1 WT%

GENERAL COMPOSITION: GENERAL COMPOSITION BY: SPECIFIC VISCOSITY

APPEARANCE TOTAL GRAVITY (CENTIPOISE) (VOL%) (WT %) AQUEOUS PHASE (FREE WATER).... 0.0 0.0 ORGANIC PHASE (FEEDSTOCK)..... 94 0 94.0 BOTTOM SLUDGE (SEMISOLIDS).... 0.0 0.0 BOTTOM SOLID (SETTLED SOLIDS).... 6.0 6 0 TOTAL 1 090 50 CPS 100.0 100 0

SPECIFIC COMPOSITION OF TOTAL SAMPLE COMPOSITION OF: TOTAL TOTAL SAMPLE SAMPLE (WT%) (WT%) WATER CONTENT.... 76.2 76.2 NON-VOLATILE RESIDUE DESCRIPTION: SOLID 20.8 20.8 VOLATILE ORGANICS BY DIFFERENCE..... 3.0 3.0 TOTAL 100.0 100.0

VOLATILE ORGANIC COMPOSITION OF TOTAL SAMPLE BY GAS CHROMATOGRAPHY SAMPLE PREPARATION METHODS: METHANOL-EXTRACT, CS2-EXTRACT

DETECTION METHODS : FID, FID, MASS-SPEC

ORGANICS ORGANICS SAMPLE COMPOUND NAME CODE CAS NUMBER (WT%) (WT%) (WT%) TOTAL OTHERS (<1.0% EACH) TO 0-05-5 54 6 54.6 1.6 BENZOIC ACID RN7A 39.9 39.9 65-85-0 1.2 PROPYLENE GLYCOL PHENYL ETHER **PGPH** 4169-04-4 5 5 5.5 0.2 TOTAL 100.0 100.0 3.0

INHIBITORS

SUMMARY OF VOLATILE ORGANIC COMPOSITION BY COMPOUND CHEMICAL CLASS WT%:

ALCOHOLS AROMATIC HYDROCARBONS

CHLORINATED SOLVENTS **ESTERS ETHERS**

5.5

GLYCOL ETHERS

KETONES NITROGEN COMPOUNDS

SPECIFIC ORGANIC COMPOSITION

POLYCHLORINATED BIPHENYLS (PCBS): NONE DETECTED <

SAFETY-KLEEN REGULATED COMPOUNDS: DETECTED

ADDITIONAL ANALYTICAL INFORMATION: TOXICS: SO2 < 1% BY GCMS

LABORATORY REVIEW: R LEVEL :

SEG CODE: RELEASED: 03/20/92 LAB REVIEWERS: AU AU ANALYZED: 03/19/92

LOW BTU/WATER ESTIMATED BY DIFFERENCE/HIGH WATER.

TRACKING INFORMATION: DATE FACILITY SURVEY RECEIVED : 03/10/92 SK TECHNICAL CEN

SAMPLE RECEIVED : 03/06/92 RESAMPLE SHIPPED :

RESAMPLE RECEIVED:

COMPOSITION OF:

ALIPHATIC HYDROCARBONS

THE ANALYSES CONTAINED HEREIN ARE PERFORMED SOLELY FOR THE PURPOSE OF QUALIFYING THE ANALYZED MATERIALS FOR ACCEPTANCE BY SAFETY-KLEEN IN ACCORDANCE WITH ITS PERMITS AND PROCESSING CAPABILITY.

VOLATILE VOLATILE

TOTAL

NOTICE OF LAND DISPOSAL RESTRICTION OF WASTE

	TO:	SAFETY-KLEEN CORP EPA	A ID NO:	ILDS	980613913		
		633 EAST 138TH ST					
		DOLTON IL 60419					
	Una	er manifest number line num	nber	(ent	er 11a, 11b, 11c	OR 11	d) the
	Gen	erator noted below is shipping to you a was	te determi	ned to be	restricted under	40 CRF	Part
	rest	 In accordance with 40 CFR 268.7, the gricted and the EPA waste code and the appr 	enerator he	ereby prov	rides notice that the	he waste	: IS
		Waste Codes: D001	, , , , , , , , , , , , , , , , , , ,			O V V 3.	
	<u> </u>						
		F001-F005 Spent Solvents		ATMENT S	STANDARDS (mg/ All Other	() Check	ΔΙΙ
		Regulated Hazardous Constituent		Solvents	Solvent Wastes	That A	
		Acetone Benzene		0.05 0.07	0.59	_	
		n-Butyl alcohol		.0	3.7 5.0		-
		Carbon disulfide		. 05	4.81		-
		Carbon tetrachloride		.05	0.96	-	-
		Chlorobenzene	0	. 15	0.05		
		Cresols (and crestyre acid)	2	.82	0.75		
		Cyclohexanone		. 125	0.75		
		1,2-Dichlorobenzene		. 68	0.125		
		Ethyl acetate Ethyl benzene		. 05	0.75		•
		Ethyl ether		. 05 . 05	0.053		
		Isobutanoi		.03	0.75 5.0		
		Methanol		. 25	0.75		
		Methylene chloride		. 2	0.96		
		Methylene chloride(from Pharm, Industry)		. 44	0.96		
		Methyl ethyl ketone	0	. 05	0.75		
		Methyl isobutyl ketone	0	. 05	0.33		
		Nitrobenzene		. 65	0.125		
		Pyridine Tetrachloroethlyene		. 12	0.33		
		Toluene		.079	0.05		
		1, 1, 1 - Trichloroethane		. 12 . 05	0.33		
		1,1,2-Trichloroethane		.03	0.41 7.6		
		1,1,2-Trichloro-1,2,2-trifluoroethane		.05	0.96		
		Trichlorethylene		.062	0.091		
		Trichlorofluoromethane	0	. 05	0.96		
		Xylene	0	. 05	0.15		
		California List Prohibited Wastes		(mg/I)	Treatment S	tandard	
		Halogenated Organic Compounds Arsenic (As) Nonwastewaters	1000		Incineration		These treatment stand
		Mercury (Hg) Nonwastewaters	500		None		do not preclude solve
		Nickel (Ni)	20 134		None None		recovery prior to dispo
		Thallium (TI)	130		None		Subsequent disposal of unrecovered waste is
		Chlorinated Biphenyls (PCB's)	50		Incineration		subject to these stand
\/\acta	Desci	iptions and/or Treatment Subcategory	T	Chandanda			•
			and Techn	ology Cod	Reference in 40 les for 40 CFR 2	CFR 68.42(a)	That Apply
Waste	Code	Description	Wastewate	ers	Nonwastewater		
D 00 1:		Wastewaters (<1.0 wt% TOC and TSS)	268.42(a)	DEACT	NA		
			NA		268.42(a) DEA		
0002		High TOC Ignitable Liquids (>10 wt% TOC) Corrosives, all subcategories & CA list		DEACT			BS, or INCIN X
0004		Arsenic (As)	268.42(a) 268.43(a)	DEACT	268.42(a) DEA 268.41(a)		Veriance wetil E-9-03
0005		Barium (Ba)	268.43(a)	-	268.41(a)		Variance until 5-8-92
0006		Cadmium (Cd)	268.43(a)	-	268.41(a)		
0007		Chromium (Cr)	268.43(a)		268.41(a)	7	
800C		Lead (Pb)	268.43(a)		268.41(a)		
0009:		Low Mercury Subcategory (<260 ppm Hg)	268.43(a)	-	268.41(a)		Variance until 5-8-92
010		High Mercury Subcategory (>= 260 ppm Hg)				RC	Variance until 5-8-92
0011		Selenium (Se) Silver (Ag)	268.43(a) 268.43(a)		268.41(a)		
	Codes	See attachment for supplemental list	200.43(a)		268.41(a)		
	Gen	erator Name: SILVANUS PRODUCTS		EP/	A ID: MODO923516	542	
		erator Representative Signature:					
		ne & Title of Representative:					
		ety-Kleen Sample Number: 284360				31370	

NOTICE OF LAND DISPOSAL RESTRICTION OF WASTE

	TO:_	SAFETY-KLEEN CORP	PA ID NO:	KYDO	053348108		
		STATE HWY 146					
	_	NEW CASTLE KY 40050					
	Unde	r manifest number line nu	mber	lent	er 11a 11b 11c	OR 11d) the
	Gene	rator noted below is shipping to you a w.	aste determ	uned to be	restricted under	40 CRE E	Part
	268	In accordance with 40 CFR 268.7, the	generator h	ereby prov	ues notice that th	e waste	15
	restr	icted and the EPA waste code and the app	propriate tre	eatment sta	indards are as follo	ows:	. 3
		Waste Codes: D001					
		F001-F005 Spent Solvents			STANDARDS (mg/l)		
		Regulated Hazardous Constituent		astewater Solvents	All Other	Check A	
		Acetone		0.05	Solvent Wastes 0.59	That App	<u>VIC</u>
		Benzene		0.07	3.7		
		n-Butyl alcohol		5.0	5.0		
		Carbon disulfide		1.05	4.81	-	
		Carbon tetrachloride		0.05	0.96		
		Chlorobenzene		0.15	0.05		
		Cresols (and crestyic acid)		2.82	0.75		
		Cyclohexanone		0.125	0.75		
		1,2-Dichlorobenzene	(0.68	0.125		
		Ethyl acetate	(0.05	0.75		
		Ethyl benzene		0.05	0.053		
		Ethyl ether	(0.05	0.75		
		sobutanol	Ç	5.0	5.0		
		Methanol	(0.25	0.75		
		Methylene chloride	(0.2	0.96		
		Methylene chloride(from Pharm, Industr	y) (0.44	0.96		
		Methyl ethyl ketone		0.05	0.75		
		Methyl isobutyl ketone		0.05	0.33		
		Nitrobenzene		0.65	0.125		
		Pyridine		1.12	0.33		
		Tetrachloroethlyene		0.079	0.05		
		Toluene		1.12	0.33		•
		1, 1, 1 - Trichloroethane		1.05	0.41		
		1, 1, 2 - Trichloroethane		0.03	7.6		
		1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.05	0.96		
		Trichlorethylene		0.062	0.091	-	
		Trichlorofluoromethane		0.05	0.96		
		Xylene	,	0.05	0.15		
		California List Prohibited Wastes	Leve	(mg/I)	Treatment St	andard	
		Halogenated Organic Compounds	1000		Incineration		These treatment standar
		Arsenic (As) Nonwastewaters	500	0.0	None		do not preclude solven
		Mercury (Hg) Nonwastewaters	20	0.0	None		recovery prior to dispo
		Nickel (Ni)	134	4.0	None		Subsequent disposal of
		Thallium (TI)	130	0.0	None		unrecovered waste is
		Chlorinated Biphenyls (PCB's)	50	0.0	Incineration		subject to these standa
\A/acto	Dagar	stions and/or Treatment C hastened					
vvaste	Descr	ptions and/or Treatment Subcategory	Ireatment	Standards	Reference in 40	CFR C	heck All
\M/acta	Code	Description			les for 40 CFR 20		hat Apply
D001:	Code	Wastewaters (<1.0 wt% TOC and TSS)	Wastewa 268.42(a		Nonwastewater	S	
5001.		Low TOC Ignitable Liquids (<10 wt% TOC		DEACT	— NA 268.42(a) DEA	CT	
		High TOC Ignitable Liquids (>10 wt% TOC) NA				S, or INCIN X
D002		Corrosives, all subcategories & CA list	268.42(a)	DEACT	268.42(a) DEA		S, OF INCIN_X_
D004		Arsenic (As)	268.43(a)		268.41(a)		/ariance until 5-8-92
D005		Barium (Ba)	268.43(a)		268.41(a)		Variance until 5-8-92
D006		Cadmium (Cd)	268.43(a)		268.41(a)		
D007		Chromium (Cr)	268.43(a)		268.41(a)		
D008		Lead (Pb)	268.43(a)		268.41(a)		
D009:		Low Mercury Subcategory (<260 ppm Hg)	268.43(a)		268.41(a)		ariance until 5-8-92
		High Mercury Subcategory (>=260 ppm Hg	g) 268.43(a)				ariance until 5-8-92
D010		Selenium (Se)	268.43(a)		268.41(a)		
D011		Silver (Ag)	268.43(a)		268.41(a)		
Other C	odes	See attachment for supplemental list					
	Gene	erator Name: SILVANUS PRODUCTS		EP	A ID: MODO923516	42	
	Gene	erator Representative Signature:					
	Nam	e & Title of Representative:					
	Safe	ty-Kleen Sample Number: 284360	c	ontrol Num	ber:013	1370	

80918 - R2271 (RUN 02/20/92) PROJECU: PREQUALIFICATION BRANCH/SUBMITTER: 503001 CAPE GIRARDEAU

PREQUALIFICATION EVALUATION - BRANCH INDUSTRIAL SERVICES GENERATOR SURVEY

OFFSET PRINTER WASTE WATER

PAGE COMPLETED: 11/25/91 REVISED: 02/20/92

1

0000118944-5

ACCEPT

ACCEPT

* * REVISED * *

FLUID RECOVERY SERVICES SILVANUS PRODUCTS INC OFFSET PRINTER WASTE WATER

LAB #: 0000028749-3 SURVEY #: 0000233415

CUSTOMER INFORMATION: 5030-01-9103

FEDERAL EPA ID: MODO92351642 STATE EPA ID: 01659

CONTROL #:

STATUS:

PRICING CODE: FA

SILVANUS PRODUCTS INC

40 MERCHANT ST ST GENEVIEVE

MO 63670

ATTN: VERNON T SCHWENT

BRANCH: 503001 - CAPE GIRARDEAU

GENERATOR: SILVANUS PRODUCTS INC NATURE OF BUSINESS: MNFG SILKSCREEN

FEDERAL EPA ID: MO:

FACILITY ADDRESS: FOR MANIFEST BILLING:

40 MERCHANT ST

ATT VERN SCHWENT

ST GENEVIEVE 63670

GENERAL DESCRIPTION: OFFSET PRINTER WASTE WATER PROCESS DESCRIPTION: FROM CLEANUP

ONE

GENERATION AMOUNT:

55 GALLONS PER QUARTER

AMOUNT ON HAND: 55 IN DRUMS

SHIPPING FREQUENCY:

WATER

4 WEEK IN DRUMS

COLOR: GREY LAYERS OR PHASES:

PCT SOLIDS NOT SAMPLED: PHYSICAL STATE:

PH RANGE: VISCOSITY: LIQUID LOW

S.I.C. NO:

ST:

ID:

MATERIAL COMPOSITION: VOL% MAX CODE TYPICAL

SOLVENTS

S 10.00 90.00

ATTACHMENTS: NONE

RESTRICTED SUBSTANCES: NONE HAZARD CLASS:

NUMBER: NEED ASSISTANCE

EPA WASTE DESCRIPTION AND TREATMENT STANDARDS: RCRA HAZARDOUS WASTE:

LISTED EPA WASTE CODES: F003

P.O. NO: 27192 TYPE OF SAMPLE: COMPOSITE # OF DRUMS SAMPLED: 1 TAKEN BY: SK REP NAME: VERNON T SCHWENT TITLE: PRODUCTION MANAGER

658

10/28/1991 (314) 883-3521 COMMENTS: L#28749-3

CORPORATE REVIEWS: DISPOSITION REVIEWER

DATE TECHNICAL: ACCEPT AAD 11/25/91

REGULATORY: ACCEPT JHP 11/25/91

OPERATING: ACCEPT JWH 11/25/91

APPROVED FACILITIES:

(658) SAFETY-KLEEN CORP

STATE HWY 146 NEW CASTLE KY 40050

FED EPA#: KYD053348108

STATE EPA#:

TELEPHONE: 502/845-2453

STATE CODE:

APPROVD 0001055 DRUM OR BULK

0000777 NOT FOR MANIFEST

POSSIBLE FACILITIES:

PROPER SHIPPING DESCRIPTION WAS BASED

DOT-EPA NOT REGULATED BY USDOT OR USEPA. DESCRIPTION SHOULD BE REFLECTIVE

ON THIS SINGLE ANALYSIS. GENERATOR MUST CERTIFY THAT SHIPMENT IS NOT HAZARDOUS.

COMMENTS: OK FOR WASTE WATER ONLY. FRS PART 82104-A. SEE CONTROL

NO. 126814 FOR TCLP

OF THE WASTE STREAM.

THIS SERVES AS NOTICE PER, 40CFR264.12(B), THAT THE FACILITY(IES) NOTED ABOVE HAS THE APPROPRIATE PERMITS AND IS WILLING TO RECEIVE THE MATERIAL DESCRIBED.

EPA WASTE CODES NONE

4-10

80918 - R2271 (RUN 02/20/92) PREQUALIFICATION EVALUATION - BRANCH INDUSTRIAL SERVICES PAGE COMPLETED: 11/25/91 REVISED: 02/20/92 MATERIAL ANALYSIS BRANCH/SUBMITTER: 503001 MIKE DOWNEY

ACCEPT * * REVISED * * FLUID RECOVERY SERVICES

ACCEPT

TOTAL

SILVANUS PRODUCTS INC CONTROL #: 0118944-5 OFFSET PRINTER WASTE WATER SURVEY #: 233415

GENERAL ANALYSIS OF TOTAL SAMPLE

COLOR LT GRAY WATER CONTENT 99.5 WT%

NON-VOLATILE RESIDUE: O.O WT% DESCRIPTION: DRY FLAMMABILITY : NO FLASH AT 142 F BY SETAFLASH : NO FLASH AT 102 F BY SETAFLASH FLAMMABILITY

PH EXTRACT BY METER 7.2

RADIOACTIVITY : NONE DETECTED COMMENTS: 2% FLOATING & BOTTOM SOLIDS

FUEL EVALUATION OF TOTAL SAMPLE

HEAT CONTENT: < 5000 BTU/LB

ASH UPON COMBUSTION: < 5.0 WT% TOTAL HALOGENS: 5.0 WT%

GENERAL COMPOSITION: GENERAL COMPOSITION BY: SPECIFIC VISCOSITY APPEARANCE TOTAL (CENTIPOISE) GRAVITY (VOL%) (WT %) AQUEOUS PHASE (FREE WATER)..... 100.0 100.0 ORGANIC PHASE (FEEDSTOCK)..... 0.0 0.0 BOTTOM SLUDGE (SEMISOLIDS)..... 0.0 0.0 BOTTOM SOLID (SETTLED SOLIDS)..... 0.0 0.0 TOTAL 1.000 50 CPS 100.0 100.0

SPECIFIC COMPOSITION OF TOTAL SAMPLE COMPOSITION OF: TOTAL TOTAL SAMPLE SAMPLE (WT%) (WT%) WATER CONTENT . . 99.5 99.5 NON-VOLATILE RESIDUE DESCRIPTION: DRY..... 0.0 0.0 VOLATILE ORGANICS BY DIFFERENCE..... 0.5 0.5 TOTAL 100.0 100.0

OLATILE ORGANIC COMPOSITION OF TOTAL SAMPLE BY GAS CHROMATOGRAPHY

SAMPLE PREPARATION METHODS: NEAT DETECTION METHODS : FID, FID

COMPOSITION OF: VOLATILE VOLATILE ORGANICS ORGANICS SAMPLE COMPOUND NAME CODE CAS NUMBER (WT%) (WT%) (WT%) NO VOLATILE ORGANICS DETECTED (<0.1% EACH) NONE 0-62-4 100.0 100.0 0.5 TOTAL 100.0 100.0 0.5

JUMMARY OF VOLATILE ORGANIC COMPOSITION BY COMPOUND CHEMICAL CLASS WT%:

ALCOHOLS AROMATIC HYDROCARBONS **ESTERS** GLYCOL ETHERS

ALIPHATIC HYDROCARBONS CHLORINATED SOLVENTS **ETHERS** INHIBITORS

KETONES NITROGEN COMPOUNDS

SPECIFIC ORGANIC COMPOSITION

POLYCHLORINATED BIPHENYLS (PCBS): NONE DETECTED <

_ABORATORY REVIEW: R LEVEL:

IIGH WATER.

SEG CODE: RELEASED: 11/25/91 .AB REVIEWERS: MS MS

ANALYZED: 11/25/91

TRACKING INFORMATION: DATE FACILITY

SURVEY RECEIVED : 11/14/91 SK TECHNICAL CEN SAMPLE RECEIVED 10/31/91

RESAMPLE SHIPPED : RESAMPLE RECEIVED:

THE ANALYSES CONTAINED HEREIN ARE PERFORMED SOLELY FOR THE PURPOSE OF QUALIFYING THE ANALYZED NATERIALS FOR ACCEPTANCE BY SAFETY-KLEEN IN ACCORDANCE WITH ITS PERMITS AND PROCESSING CAPABILITY.

EVISION NOTES ** (02/20/92) ** (0001)REVISED TO ACCEPT.CC

80918 - R2270 (RUN 02/20/92)

SAFETY-KLEEN CORP.

PREQUALIFICATION EVALUATION

FLUID RECOVERY SILVANUS PRODUCTS INC MANIFESTING INFORMATION

REVISED : 02/20/92

CONTROL#: 0118944-5 SAMPLE# : 233415

REQUIRED MANIFEST FORM:

Safety-Kleen Corp. provides this manifesting information for instructional purposes only. All the information is believed to be accurate, but is known to be incomplete. Federal and State regulations and the instructions on the manifest form should be consulted for complete information. In addition, certain variations may be allowed by regulations, but need to be approved by a Safety-Kleen representative prior to shipment.

	T				,			
UNIFORM HAZARDOUS	1. GENERATOR US	2000 000 000 000 000 000 000 000 000 00	DOCUMENT NO.	2. PAGE	UNDERLINED AREAS			
WASTE MANIFEST	MODO92351	642			ARE REQUIRED			
3. GENERATOR NAME A	ND MAILING ADDRES	SS		A. STATE MANIFEST	DOCUMENT NUMBER			
SILVANUS PRODUCT 40 MERCHANT ST ATT VERN SCHWENT ST GENEVIEVE	S INC	2670						
		3370		B. STATE GENERATOR	RS ID			
4. GENERATOR PHONE	(314) 883-352	1		016	59			
5. TRANSPORTER 1 COM	MPANY NAME	6. US EPA ID NUMBE	ER	C. STATE TRANS ID				
SAFETY-KLEEN CORE	٠.			D. TRANSPORTER PHO	ONE			
7. TRANSPORTER 2 COM	MPANY NAME	8. US EPA ID NUMBE	ER .	E. STATE TRANS ID				
				F. TRANSPORTER PHONE				
9. FACILITY NAME AND SITE ADDRESS SAFETY-KLEEN CORP		10. US EPA ID NUME	BER	G. FACILITY STATE ID				
STATE HWY 146 NEW CASTLE KY 400	050	KYD053348108	3	H. FACILITY PHONE				
				502-845-2453				
11. US DOT DESCRIPTIO	N (INCLUDING ALL F	PARTS REQUIRED BY U	JS DOT)	CONTAINER	I. WASTE NO			
a. NOT REGULATED BY DESCRIPTION SHOUL OF THE WASTE STRE	D BE REFLECTIVE			DRUM OR BULK	NONE			
b. PROPER SHIPPING CON THIS SINGLE AN CERTIFY THAT SHIP	ALYSIS. GENERATO	***************************************	NOT FOR MANIFEST					
J. ADDITIONAL DESCRIPT	TION FOR MATERIAL	S LISTED ABOVE		K. HANDLING CODES	FOR WASTES ABOVE			
				<u>S01/S02/</u>	/T50_			
					1			

15. SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

CONTROL NO 0118944-5 SAMPLE NO 233415 CUSTOMER NUMBER 5-030-01-9103 -FOR ALL SAFETY-KLEEN SHIPMENTS

EMERG RESP# 708-888-4660 24 HR

SK-DOT NUMBERS A: 0001055 B: 0000777

NO NOTICE OF LAND DISPOSAL RESTRICTION OF WASTE REQUIREMENT CAN BE DETERMINED FROM THIS ANALYSIS



OFFSET PRINTER WASTE WATER

Safety-Kleen Corporation TCLP Analysis

Generator

Report Date: 02/19/92

Silvanus Products Inc 40 Merchant Street Work Order #: 92-01-065 Control #: 126814-9

St. Genevieve, MO 63670

Survey #: 227376

Attention:

Vernon Schwert

Customer Representative:

503001, Bob Davie

Dear Sir:

The enclosed Safety-Kleen TCLP analysis of water for Silvanus Products Inc. DOES NOT show TCLP characteristic waste codes.

Currently the TCLP Laboratory tests for EPA waste codes D004-D043. For a material to be classified as non-hazardous, the generator must determine that the waste is not defined as a "listed" hazardous waste, not mixed with a "listed" hazardous waste, not derived from a "listed" hazardous waste, and obtain analytical information for EPA waste code(s) D001 (ignitability), D002 (corrosivity), and D003 (reactivity). The TCLP laboratory itself does not test for these waste codes. This information can be obtained through a prequalification analysis.

The columns of concern in the TCLP analytical results are "regulatory limits" and "final results", both printed in bold. A comment at the end of this TCLP analysis indicates if the analysis is TCLP characteristic. If a corresponding preship number was provided, the original preship will be revised with respect to a hazardous or non hazardous determination.

Please do not hesitate to call Tanja Duda (x7354) if there are any questions.

Sincerely,

Mark Hartwig

TCLP Laboratory Manager

Mark h. Thatwy

Safety-Kleen TCLP Analysis
Silvanus Products Inc
Page 2

Work Order #: 92-01-065 Control #: 126814-9 Survey #: 227376

TCLP N	METALS RESUL	rs				Phase:	Total
EPA WASTE #	ANALYTE	DATE ANALYZED	REG LIMIT (mg/L)	PQL (mg/L)	INSTRUMENT RESULT (mg/L)	MTX SPK REC(%)	FINAL RESULT (mg/L)
D004 D005 D006 D007 D008 D009 D010 D011	Arsenic Earium Cadmium Chromium Lead Mercury Selenium Silver	02/04/92 02/05/92 02/06/92 02/05/92 02/05/92 02/06/92 02/04/92 02/04/92	5.00 100 1.00 5.00 5.00 0.200 1.00 5.00	0.0200 0.400 0.0100 0.160 0.0400 0.00200 0.0300 0.00800	< 0.0200 1.11 < 0.0100 < 0.160 < 0.0400 < 0.00200 < 0.0300 < 0.00800	94.0 97.0 92.0 114 98.0 105 94.0 90.0	<pre></pre>
TCLP V	Volatile Orga	anic Compound	s			Phase:	Total
EPA WASTE #	ANALYTE DATE ANALYZ	ED 02/14/92	REG LIMIT (mg/L)	PQL (mg/L)	INSTRUMENT RESULT (mg/L)	MTX SPK REC(%)	FINAL RESULT (mg/L)
D018 D019 D021 D022 D027 D028 D029 D035 D039 D040 D043	D18 Benzene D19 Carbon tetrachloride D21 Chlorobenzene D22 Chloroform D27 Dichlorobenzene, 1,4- D28 Dichloroethane, 1,2- D29 Dichloroethylene, 1,1- D35 Methyl Ethyl Ketone D39 Tetrachloroethylene D40 Trichloroethylene		0.500 0.500 100 6.00 7.50 0.500 0.700 200 0.700 0.500 0.200	0.100 0.100 0.100 0.100 0.100 0.100 0.500 0.100 0.100	< 0.100 < 0.100 < 0.100 < 0.500 < 0.100	96.0 110 102 110 86.0 112 74.0 78.0 102 104 160	< 0.100 < 0.100 < 0.100 < 0.100 < 0.100 < 0.135 < 0.641 < 0.100 < 0.100 < 0.200
TCLP 1	Base/Neutral	/Acids Result	s			Phase:	Total
EPA WASTE #	ANALYTE DATE ANALYZ	ED 02/10/92	REG LIMIT (mg/L)	PQL (mg/L)	INSTRUMENT RESULT (mg/L)	MTX SPK REC(%)	FINAL RESULT (mg/L)
D023 D025 D030 D032 D033 D034 D036 D037 D038 D041 D042	Cresol, o- Cresol, p- Dinitrotolu Hexachlorob Hexachlorob Hexachloroe Nitrobenzen Pentachloro Pyridine 2,4,5-Trich 2,4,6-Trich	ene enzene utadiene thane e phenol	200 200 0.130 0.130 0.500 3.00 2.00 100 5.00 400 2.00	0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.500 0.200 0.100	< 0.100 < 0.100 < 0.100 < 0.100 < 0.100 < 0.500 < 0.200 < 0.100	62.0 66.0 40.0 59.0 70.0 45.0 22.0 56.0	< 0.179 < 0.161 < 0.161 < 0.152 < 0.250 < 0.169 < 0.143 < 1.11 < 0.909 < 0.179 < 0.133

Safety-Kleen TCLP Analysis
Silvanus Products Inc
Page 3

Work Order #: 92-01-065 Control #: 126814-9 Survey #: 227376

Sample Handling Dates/Times:

Date Sampled: 01/23/92 11:20

Date Received: 01/24/92 Date Reported: 02/19/92

Extraction/Digestion Dates:

Bottle Leach: NR *
ZHE Leach: NR *
BNA Leach: 02/03/92

Sample Composition:

Percent Solids: 2.68%
Percent Dry Solids: 0.03%

Report Comments

Final result of an analyte is amount detected for the analyte corrected for its matrix spike recovery that is below 80%. (No correction will be made if the matrix spike recovery is above 80%.)

of Phases: 1

Sample description: Water

*: No leaching required.

Requested TCLP analysis does not show any characteristics. Refer to S# 233415, C# 118944-5 for corresponding preship. Refer to above data summary for details.

Reviewed By / Date:

Corporate Reviewed By / Date:

Cathy Chilele 2/20/12



SILK SCREENING WASTE WATER

SK SAMPLE #: 227280 SK CONTROL #: 118508-1

WORK ORDER #:91-11-002

OF PHASES:

1

December 5, 1991

Bob Davie Safety-Kleen Corp. Route 2, Box 549-D Cape Girardeau, MO 63701

Dear Bob:

The enclosed is a Safety-Kleen TCLP analysis.

Currently the TCLP Laboratory tests for EPA waste codes D004-D043. For a material to be classified as non-hazardous, analytical information for EPA waste code(s) D001 (ignitability), D002 (corrosivity), and D003 (reactivity) is also required. The TCLP laboratory itself does not test for these waste codes. This information can be obtained through a preship analysis.

The columns of concern in the TCLP analytical results are column 4 (regulatory limits) and column 8 (final results). A comment at the end of this TCLP analysis indicates if the analysis is TCLP characteristic. If a corresponding preship number was provided, the original preship will be revised with respect to a hazardous or non hazardous determination.

Please don't hesitate to call Tammy Smith (X7363), or Tanja Duda (X7354) if there are any questions.

Sincerely,

Mark Hartwig

TCLP Laboratory Manager

-Marka. Hartwy

MH:jt

Allan A. Manteuffel Technical Center

TABLE 2.
TOXICITY CHARACTERISTIC CONTAMINANTS AND REGULATORY LEVELS

EPA hazardous waste number	Contaminant	Chronic toxicity reference level (mg/L)	Basis*	Regulatory level (mg/L)
D004	Arsenic	0.05	MCL	5.0
D005	Barium	1.0	MCL	100
D018	Benzene	0.005	MCL	0.5
D006	Cadmium	0.01	MCL	1.0
D019	Carbon tetrachloride	0.005	MCL	0.5
D020	Chlordane	0.0003	RSD	0.03
D021	Chlorobenzene	1	RID	100.0
D022	Chloroform	0.06	RSD	6.0
D007	Chromium	0.05	MCL	5.0
D023	o-Cresol	2 .	RfD	200.0^{a}
D024	m-Cresol	2	RID	200.0^{a}
D025	p-Cresol	2	RID	200.0^{a}
D026	Cresol	2	RfD	200.0°
D016	2,4-D	0.1	MCL	10.0
D027	1,4-Dichlorobenzene	0.075	MCL	7.5
D028	1,2-Dichloroethane	0.005	MCL	0.5
D029	1,1-Dichloroethylene	0.007	MCL	0.7
D030	2,4-Dinitrotoluene	0.0005	RSD	0.13^{b}
D012	Endrin	0.0002	MCL	0.02
D031	Heptachlor (and its hydroxide)	80000.0	RSD	0.008
D032	Hexachlorobenzene	0.0002	RSD	0.13 ^b
D033	Hexachloro-1,3-butadiene	0.005	RSD	0.5
D034	Hexachloroethane	0.03	RSD	3.0
D008	Lead	0.05	MCL	5.0
D013	Lindane	0.004	MCL	0.4
D009	Mercury	0.002	MCL	0.2
D014	Methoxychlor	0.1	MCL	10.0
D035	Methyl ethyl ketone	2	RID	200.0
D036	Nitrobenzene	0.02	RID	2.0
D037	Pentachlorophenol	1	RID	100.0
D038	Pyridine	0.04	RID	5.0 ^b
D010	Selenium	0.01	MCL	1.0
D011	Silver	0.05	MCL	5.0
D039	Tetrachloroethylene	0.007	RSD	0.7
D015	Toxaphene	0.005	MCL	0.7
D()4()	Trichloroethylene	0.005	MCL	0.5
D041	2,4,5-Trichlorophenol	4	RID	400.0
D042	2,4,6-Trichlorophenol	0.02	RSD	2.0
D017	2,4,5-TP (Silvex)	0.01	MCL	1.0
D043	Vinyl chloride	0.002	MCL	0.2

^{*}MCL = maximum contaminant level or National Interim Primary Drinking Water Standard; RSD = risk-specific dose; RfD = reference dose.

Source: 55 FR 11804 and 11815-11816.

[†]The regulatory level equals the chronic toxicity reference level times a dilution/attenuation factor (DAF) of 100, unless otherwise noted.

^alf o-, m-, and p-cresol concentrations cannot be differentiated, the total cresol (D026) concentration is used. Note that D026 was added to the final rule for this purpose, but is not a new constituent.

^bThe quantitation limit (i.e., five times the detection limit) is greater than the calculated regulatory level; thus, the quantitation limit becomes the regulatory level.



SK LAB #: 91-11-002

SK CONTROL #: 118508-1

SK SAMPLE #: 227280

DATE SAMPLED: 10/31/91

DATE RECEIVED: 11/1/91

DATE REPORTED: 11/26/91

OF PHASES: 1

GENERATOR NAME: Sylvanus Products, Inc.

MATERIAL DESCRIPTION: Water

PERCENT DRY SOLIDS: 0.11%

TCLP ANALYTICAL RESULTS

Listing Toxicity Characteristic Contaminants

EPA WASTE #	ANALYTE	DATE ANALY	REG LIMIT (mg/L)	PRAC QUAN LIMIT (mg/L)	AMOUNT DETECTED (mg/L)	MTRX SPIKE REC %	FINAL RESULTS (mg/L)
D004 D005 D006 D007 D008	METALS Arsenic Barium Cadmium Chromium Lead	11/06 11/13 11/07 11/08 11/07		0.02 0.4 0.01 0.16 0.04	<0.02 <0.4 <0.01 <0.16 <0.04	99 102 111 102 89	<0.02 <0.4 <0.01 <0.16 <0.04
D009 D010 D011	Mercury Selenium Silver	11/11 11/06 11/06	0.2 1.0 5.0	0.08 0.03 0.008	<0.08 <0.03 <0.008	98 105 108	<0.08 <0.03 <0.008
D018 D019 D021 D022 D027 D028 D029 D035 D039 D040 D043	WOLATILE ORGANICS Benzene Carbon Tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene 1,2-Dichloroethane 1,1-Dichloroethylene Methyl Ethyl Ketone Tetrachloroethylene Trichloroethylene Vinyl Chloride	11/14	0.5 0.5 100.0 6.0 7.5 0.5 0.7 200.0 0.7 0.5	0.1 0.1 0.2 0.1 0.2 0.5 0.6 0.1	<0.1 <0.1 <0.2 <0.1 <0.2 <0.5 <0.6 <0.1 <0.2	94 98 98 96 96 96 96 94 96	<0.1 <0.1 <0.2 <0.1 <0.2 <0.5 <0.6 <0.1 <0.1

P.O. Box 92050 Elk Grove Village, IL 60009-2050 p. 2

SK LAB #: 91-11-002

SK CONTROL #:

118508-1

SK SAMPLE #:

227280

EPA WASTE #	ANALYTE	DATE ANALY	REG LIMIT (mg/L)	PRAC QUAN LIMIT (mg/L)	AMOUNT DETECTED (mg/L)	MTRX SPIKE REC %	FINAL RESULTS (mg/L)
	BASE/NEUTRAL/ACIDS						
D023	o-Cresol	11/18	200.0	0.01	<0.01	78	<0.01
D025	m & p-Cresol		200.0	0.01	<0.01	76	<0.01
D030	2,4-Dinitrotoluene		0.13	0.01	<0.01	92	<0.01
D032	Hexachlorobenzene		0.13	0.01	<0.01	66	<0.02
D033	Hexachlorobutadiene	¥	0.5	0.01	<0.01	79	<0.01
D034	Hexachloroethane	,	3.0	0.01	<0.01	58	<0.02
D036	Nitrobenzene		2.0	0.01	<0.01	88	<0.01
D037	Pentachlorophenol		100.0	0.05	<0.05	61	<0.08
D038	Pyridine		5.0	0.02	<0.02	1	<2.0
D041	2,4,5-Trichlorophenol		400.0	0.01	<0.01	84	<0.01
D042	2,4,6-Trichlorophenol		2.0	0.01	<0.01	91	<0.01

Extraction/Digestion Dates: Bottle Leach: NR*1

ZHE Leach:

NR*1

BNA:

11/6/91

Comments: Only results with matrix spike recoveries

below 80% are corrected.

* Leaching not required.

Requested TCLP analysis does not show any characterisitics. No associated preship indicated. Refer to above data summary for details.

Reviewed By:

fanager

Dato

Corporate Review

Date

PROJECT PREQUALIFICATION

WASTE WATER/SILKSCREEN SPRAY BOOTH

80918 - R2271 (RUN 02/03/92) PREQUALIFICATION EVALUATION - BRANCH INDUSTRIAL SERVICES GENERATOR SURVEY

REVISED:

PAGE COMPLETED: 02/03/92

02/03/92

BRANCH/SUBMITTER: 503001 CAPE GIRARDEAU

SILK SCREENING

A C C F P T

WASTE WATER

safetu-kleen

ACCEPI

CONTROL #: 0000126621-9 LAB #: 0000033037-8

SURVEY #: 0000233357

CUSTOMER INFORMATION: 5030-01-9103

FLUID RECOVERY SERVICES

SILVANUS PRODUCTS INC

FEDERAL EPA ID: MODO92351642

STATE EPA ID: 01659

STATUS: SQG

NOT SURE

(314) 883-3521

PRICING CODE: F2

O TAKEN BY: SK REP

NONE

EPA WASTE CODES

4-10

SILVANUS PRODUCTS INC

40 MERCHANT ST

ST GENEVIEVE

MO 63670

ATTN: VERNON T SCHWENT

BRANCH: 503001 - CAPE GIRARDEAU

GENERATOR: SILVANUS PRODUCTS INC

NATURE OF BUSINESS: MNFG PAINTER

S.I.C. NO: EPA ID: MODO92351642 **FEDERAL** MO: 1659

FACILITY ADDRESS: FOR MANIFEST

40 MERCHANT ST

ATT VERN SCHWENT

ST GENEVIEVE MO 63670

GENERAL DESCRIPTION: WASTE WATER/SILKSCREEN SPRAY BOOTH PROCESS DESCRIPTION: FROM SPRAY CLEANING SILK SCREENS

GENERATION AMOUNT:

55 GALLONS PER MONTH

AMOUNT ON HAND: SHIPPING FREQUENCY:

55 IN DRUMS 12WK

COLOR: LIGHT BLUE/CLEAR

IN DRUMS PCT SOLIDS NOT SAMPLED:

AYERS OR PHASES: ONE PHYSICAL STATE: LIQUID VISCOSITY: LOW

01/31/92

01/31/92

MATERIAL COMPOSITION: VOL% MAX TYPICAL CODE

WATER

ATTACHMENTS: TCLP

RESTRICTED SUBSTANCES: NONE

HAZARD CLASS:

NUMBER:

EPA WASTE DESCRIPTION AND TREATMENT STANDARDS: RCRA HAZARDOUS WASTE: NO

NOT RCRA WASTE SIGNATURE? YES 01/23/1992 STATE WASTE CODES:

P.O. NO: 28120 TYPE OF SAMPLE: GRAB

NAME: VERNON T SCHWENT TITLE: SUPV

COMMENTS: REFER TO TCLP ANALYSIS #227280 FOR NON HAZ WASTE

JWH

CORPORATE REVIEWS: DISPOSITION REVIEWER DATE 01/31/92

TECHNICAL: ACCEPT JHP REGULATORY: ACCEPT AAD

OPERATING: ACCEPT

APPROVED FACILITIES:

REGULATED CHEMICAL CODES:

(658) SAFETY-KLEEN CORP

STATE HWY 146 NEW CASTLE KY 40050

FED EPA#: KYD053348108

STATE EPA#:

TELEPHONE: 502/845-2453

STATE CODE:

APPROVD 0001055 DRUM OR BULK

DOT-EPA NOT REGULATED BY USDOT OR USEPA.

DESCRIPTION SHOULD BE REFLECTIVE

0000777 NOT FOR MANIFEST PROPER SHIPPING DESCRIPTION WAS BASED

ST:

BILLING:

ID:

PH RANGE :

100.00

NOT SURE

01/23/1992

NEED ASSISTANCE

OF DRUMS SAMPLED:

POSSIBLE FACILITIES:

ON THIS SINGLE ANALYSIS. GENERATOR MUST

658

OF THE WASTE STREAM. CERTIFY THAT SHIPMENT IS NOT HAZARDOUS.

COMMENTS: OK FOR WASTE WATER ONLY. FRS PART 82102.

THIS SERVES AS NOTICE PER, 40CFR264.12(B), THAT THE FACILITY(IES) NOTED ABOVE HAS THE APPROPRIATE PERMITS AND IS WILLING TO RECEIVE THE MATERIAL DESCRIBED.

BRANCH/SUBMITTER: 503001 MIKE DOWNEY

A C C E P T FLUID RECOVERY SERVICES SILVANUS PRODUCTS INC

WASTE WATER/SILKSCREEN SPRAY BOOTH

-AGE DMPLETED: 02,03/92 REVISED: 02/03/92 COMPLETED.

ACCEPI

CONTROL #: 0126621-9 SURVEY #: 233357

GENERAL ANALYSIS OF TOTAL SAMPLE

COLOR

WATER CONTENT

LT GRAY/LT BLUE 99.2 WT%

NON-VOLATILE RESIDUE: FLAMMABILITY

1.1 W"% DESCRIPTION: SOLID NO FLASH AT 142 F BY SETAFLASH

FLAMMABILITY PH

NO FLASH AT 102 F BY SETAFLASH EXTRACT BY METER 9.6

RADIOACTIVITY

: NONE DETECTED COMMENTS: 3% SOLID/NO FLASH AT 202F

FUEL EVALUATION OF TOTAL SAMPLE

HEAT CONTENT: TOTAL HALOGENS:

< 5000 BTU/LB

ASH UPON COMBUSTION: < 5.0 WT%

GENERAL COMPOSITION:

5.0 WT%

GENERAL COMPOSITION BY: SPECIFIC VISCOSITY APPEARANCE TOTAL GRAVITY AQUEOUS PHASE (FREE WATER) . . (CENTIPOISE) ····· (VOL%) ORGANIC PHASE (FEEDSTOCK)... (WT %) . . 100.0 100.0 0.0 BOTTOM SOLID (SETTLED SOLIDS).... 0.0 0.0 0.0 TOTAL 0.0 0.0 1.000 100.0 100.0

SPECIFIC COMPOSITION OF TOTAL SAMPLE

COMPOSITION OF: TOTAL TOTAL SAMPLE SAMPLE WATER CONTENT . . . (WT%) (WT%) NON-VOLATILE RESIDUE VOLATILE ORGANICS BY DIFFERENCE..... 99.2 99.2 1.1 1.1 0.0 0.0 100.0 100.0

OLATILE ORGANIC COMPOSITION OF TOTAL SAMPLE BY GAS CHROMATOGRAPHY

SAMPLE PREPARATION METHODS: NEAT

DETECTION METHODS : FID, FID

IMPOUND NAME TRACES OF VOLATILE ORGANICS DETECTED (<1.0% EACH) TITAL

COMPOSITION OF: CODE CAS NUMBER

0-27-1

VOLATILE VOLATILE TOTAL ORGANICS ORGANICS SAMPLE (WT%) (WT%) (WT%) 100.0 100.0 0.0

100 0

0.0

MMARY OF VOLATILE ORGANIC COMPOSITION BY COMPOUND CHEMICAL CLASS WT%:

AROMATIC HYDROCARBONS **ESTERS**

GLYCOL ETHERS KETONES

ALIPHATIC HYDROCARBONS CHLORINATED SOLVENTS

ETHERS INHIBITORS

NITROGEN COMPOUNDS

ECIFIC ORGANIC COMPOSITION

POLYCHLORINATED BIPHENYLS (PCBS): NONE DETECTED <

ABORATORY REVIEW: R

3 REVIEWERS: SH WATER.

SEG CODE : UA UA

RELEASED: 02/03/92 ANALYZED: 01/31/92

TRACKING INFORMATION: SURVEY RECEIVED

SAMPLE RECEIVED RESAMPLE SHIPPED DATE FACILITY 01/27/92 SK TECHNICAL CEN

01/27/92

100.0

RESAMPLE RECEIVED:

ANALYSES CONTAINED HEREIN ARE PERFORMED SOLELY FOR THE PURPOSE OF QUALIFYING THE ANALYZED ERIALS FOR ACCEPTANCE BY SAFETY-KLEEN IN ACCORDANCE WITH ITS PERMITS AND PROCESSING CAPABILITY.



SK LAB #: 91-11-002

SK CONTROL #: 118508-1

SK SAMPLE #: 227280

DATE SAMPLED: 10/31/91
DATE RECEIVED: 11/1/91

DATE REPORTED: 11/26/91

OF PHASES: 1

GENERATOR NAME: Sylvanus Products, Inc.

MATERIAL DESCRIPTION: Water

PERCENT DRY SOLIDS: 0.11%

TCLP ANALYTICAL RESULTS

Listing Toxicity Characteristic Contaminants

EPA WASTE	ANALYTE	DATE ANALY	REG LIMIT (mg/L)	PRAC QUAN LIMIT (mg/L)	AMOUNT DETECTED (mg/L)	MTRX SPIKE REC %	FINAL RESULTS (mg/L)
D004 D005 D006 D007 D008 D009 D010	METALS Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	11/06 11/13 11/07 11/08 11/07 11/11 11/06 11/06	5.0 100.0 1.0 5.0 5.0 0.2 1.0 5.0	0.02 0.4 0.01 0.16 0.04 0.08 0.03 0.008	<0.02 <0.4 <0.01 <0.16 <0.04 <0.08 <0.03 <0.008	99 102 111 102 89 98 105 108	<0.02 <0.4 <0.01 <0.16 <0.04 <0.08 <0.03 <0.008
D018 D019 D021 D022 D027 D028 D029 D035 D039 D040 D043	VOLATILE ORGANICS Benzene Carbon Tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene 1,2-Dichloroethane 1,1-Dichloroethylene Methyl Ethyl Ketone Tetrachloroethylene Trichloroethylene Vinyl Chloride	11/14	0.5 0.5 100.0 6.0 7.5 0.7 200.0 0.7 0.5 0.2	0.1 0.1 0.2 0.1 0.2 0.5 0.6 0.1	<0.1 <0.1 <0.2 <0.1 <0.2 <0.5 <0.6 <0.1 <0.1	94 98 98 96 96 96 98 96 94 96	<0.1 <0.1 <0.2 <0.1 <0.2 <0.5 <0.6 <0.1 <0.2

SK LAB #: 91-11-002

SK CONTROL #:

118508-1

SK SAMPLE #:

227280

epa Vaste	ANALYTE	DATE ANALY	REG LIMIT (mg/L)	PRAC QUAN LIMIT (mg/L)	AMOUNT DETECTED (mg/L)	MTRX SPIKE REC %	FINAL RESULTS (mg/L)
D023 D025 D030 D032 D033 D034 D036 D037 D038	BASE/NEUTRAL/ACIDS o-Cresol m & p-Cresol 2,4-Dinitrotoluene Hexachlorobenzene Hexachlorobutadiene Hexachloroethane Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	11/18	200.0 200.0 0.13 0.13 0.5 3.0 2.0 100.0 5.0	0.01 0.01 0.01 0.01 0.01 0.01 0.05 0.02 0.01	<0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.05 <0.02 <0.01	78 76 92 66 79 58 81 1	<0.01 <0.01 <0.01 <0.02 <0.01 <0.02 <0.01 <0.08 <2.0 <0.01

Txtraction/Digestion Dates: Bottle Leach: NR*1

ZHE Leach:

NR*1

BNA:

11/6/91

Comments: Only results with matrix spike recoveries

below 80% are corrected.

* Leaching not required.

Requested TCLP analysis does not show any characterisitics. No associated preship indicated. Refer to above data summary for details.

Reviewed By:

Manager



RCRA Part A Application

Please print or type in the unshaded areas only fill—in areas are spaced for elite type, i.e., 1 aracters/in				`~	Form Approved OMB No.			
				ATION	I. EPA I.D. NUMBER	Market S		T/A C
	Consoli	dated	Permits P		FM.O.D. Q 9 2 3	5 1	6 4	2 7
EPA I.D. NUMBER		/	11		GENERAL INSTE	peen p		
MIII. FACILITY NAME		//			it in the designated space, ation carefully; if any of through it and enter the	t is in	ncorre	ect, cross
7////	//	//	///		appropriate fill—in area be the preprinted data is abs	low. A	Also, he are	if any of
V. FACILITY MAILING ADDRESS PLEASE PL	LĄCĘ	LĄI	BEĹ IŅ	THIS SPACE	left of the label space li that should appear), pleas	e pro	vide	it in the
7//////////////////////////////////////	//	/	//		proper fill—in area(s) belocomplete and correct, you Items I, III, V, and VI	need	not	complete
VI. FACILITY	//		//		must be completed regent items if no label has been	dless). provi	Com	nplete all Refer to
Trock in the state of the state	//	/			the instructions for deta tions and for the legal a which this data is collected,	uthori		
II. POLLUTANT CHARACTERISTICS		250	Marie Control	to make a series	William data is collected.		arab	200
INSTRUCTIONS: Complete A through J to determine questions, you must submit this form and the supplemental submit the supplemental suppl	wheth	er you	need to	submit any permit applica	ation forms to the EPA. If you and	wer "	yes"	to any
if the supplemental form is attached. If you answer "no is excluded from permit requirements; see Section C of the supplements is the supplement of the supp	o" to e	ech qu	uestion, yo	ou need not submit any of	these forms. You may answer "no	" if y	our a	
SPECIFIC QUESTIONS	\top	MAR		121		F	MAR	K'X'
A. Is this facility a publicly owned treatment work	YES	NO ,	ATTACHED	B. Does or will this faci	III QUESTIONS	YES	NO	ATTACHE
which results in a discharge to waters of the U.S. (FORM 2A)	.7	х		include a concentrat aquatic animal produ	ted animal feeding operation or uction facility which results in a fithe U.S.? (FORM 2B)		x	
C. Is this a facility which currently results in discharge to waters of the U.S. other than those described		17 X	10	D. Is this a proposed fac	cility lother than those described hich will result in a discharge to	10	X	Ħ
A or B above? (FORM 2C)	1 ==	23	24	waters of the U.S.? (F		19	26	27
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X	29	X	municipal effluent be taining, within one	elow the lowermost stratum con- quarter mile of the well bore, of drinking water? (FORM 4)	31	X	33
G. Do you or will you inject at this facility any produce water or other fluids which are brought to the surfaction of the surface of the sur	d æ	-		H. Do you or will you in	nject at this facility fluids for spe-	1		
in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid	of	x		process, solution min tion of fossil fuel, or	ning of sultur by the Francis ning of minerals, in situ combus- r recovery of geothermal energy?		x	
hydrocarbons? (FORM 4) I. Is this facility a proposed stationary source which i	34 is		36	J. Is this facility a pro	posed stationary source which is	37		38
one of the 28 industrial categories listed in the in structions and which will potentially emit 100 ton per year of any air pollutant regulated under the	15			NOT one of the 28 instructions and which	industrial categories listed in the ch will potentially emit 250 tons			
Clean Air Act and may affect or be located in a attainment area? (FORM 5)	n	X	-42		ollutant regulated under the Clean ect or be located in an attainment	42	X	45
III. NAME OF FACILITY				Sometiment of the second of the second of the	itti oyo kishin ilida kaleniya bikacia mbirkan ne			
1 SKIP GEORGIA - PACIFIC	<u>c </u>			NATIONAL	COVERDIV			.P.
			ng gan	es john jägib avattyonteened	The Alberta State of the State		AUTE :	in govern
<u>e </u>	RES	1 1	DEN	T M G R 3	8. PHONE (area code & no.)	1		
18 16				45 44	1 4 8 8 3 3 5 2 1			
A. STREET OR P.O	. вох	ಕ್ಷಣ್ಣ ಕೃತ್ತೆ -		and the second s	Same to grade the first of the suffering the subsequence		-3 3 A ***	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
340 MERCHANT ST.	1 1	1 1	1 1 1					
B. CITY OR TOWN			J	C.STATE D. ZIP	CODE		No.	
4 STE. GENEVIEVE			1 1 1	M O 6 3 6	7.0	•	7.	
VI. FACILITY LOCATION	het fra	***		Takan di redi 1973 reserva i 17 La ga	astorala original original	e to the same	·65.73	gen.
A. STREET, ROUTE NO. OR OTHER 5 4 0 MERCHANT ST.	SPECI	FIC I	DENTIFIE	R				
5 4 0 MERCHANI SI.						3		â
STE. GENEVIEVE	11	11	111	4	NOV 24138	*	- :: 11 (•
C. CITY OR TOWN				D.STATE E. ZIP	CODE F. COUNTY CODE			
<u>e</u>	1 1	1 1			(if known)			

INTINUED FROM THE FRONT				~	
II. SIC CODES (4-digit, in order of priority)	See	Paladan Paragontes	However G. Collection	* Sanking's	Strategically depleted in the feether.
A. FIRST	<u> </u>	<u> </u>	(specify)	B. SECOND	
2,78,2 (specify) Looseleaf Binde Covers (Vinyl) Passb	rs, Checkbook:	7	(specify)		* · .
TO A CONTINUE OF THE ACCT	. Books (Paper)	15 16 - 19		D. FOURTH	(
(specify)	- DOUGH (Tapel)	= 111	(specify)		
16 - 18	9	15 16 - 19			
	San San San San Company	the property of the party	a salahan keta	today of their a great of the	a labely flow they are
	A. NAME				B. is the name listed in the listed in the listed in the list of t
GEORGIA-PACIFIC					Owner?
···		_\\\			YES D NO
C. STATUS OF OPERATOR (Enter the appro	priate letter into the answe	box; if "Other",	specify.)	D. PHONE	(area code & no.)
F = FEDERAL M = PUBLIC (other than fe S = STATE O = OTHER (specify) P = PRIVATE	ederal or state)	ecify)		4 500	
the state of the s				A 5 0 3	2 2 2 5 5 6 1
E.STREET OR	P.O. BOX		- Andrews	Da Alexander	serios en las e
	NUE				
F. CITY OR TOWN	ante dispussion in the	G.STATE	H. ZIP CODE	IX INDIAN LAND	> grading to the Company of the State of the
		' ' - '	1 1 1 1	Is the facility locate	
PORTLAND		O R	9 7 2 0 4	Ù YES	
		40 41 42	1000	52	2.
	or not a story of the light.			ويومعه والمراجع والمواجعة	on the second profession and the
A. NPDES (Discharges to Surface Water)	D. PSD (Air Emissions	from Proposed So	urces)		* and Beauty
N -	9 P		1		
B. UIC (Underground Injection of Fluids)	15 16 17 16 E. OTHER	(specify)	30		
VI I I I I I I I I I I I I I I I I I I	671111		(specif		
	9 10 17 18 10 10 10 10 10 10 10 10 10 10 10 10 10		30		*
CARCRA (Hazardous Wastes)	And a second of the second of		· 性性性 5-25	111	
R	9		(specif	v)	
	15 16 17 10	4	30		
ttach to this application a topographic map be outline of the facility, the location of each eatment, storage, or disposal facilities, and eater bodies in the map area. See instructions L NATURE OF BUSINESS (provide a brief descrip-	an of its existing and preach well where it injection for precise requirements	oposed intake a ts fluids under	nd discharge st round. Include	ructures, each of all springs, riven	its hazardous waste s and other surface
. NATURE OF BUSINESS (provide a brief descript	don)	क्ष्मी १५१०मा वर्षा राष्ट्र ी	14 5 5 数 数 数 数	a registration conjusts.	SHOW THE PROPERTY OF THE
Manufacture and decorate viny covers etc. Also manufacture	vl products. Not e bankbooks for r	ebook bind ecording l	ers, menu o oan paymen	covers, chec ts, savings,	kbook etc.
				* *	
I. CERTIFICATION (see instructions)					at their properties and
certify under penalty of law that I have pen techments and that, based on my inquiry plication, I believe that the information is use information, including the possibility of i	of those persons imme true, accurate and comp fine and imprisonment.	diately responsi plete. I am awai	hle for abtaini	submitted in this	application and all
Pohort A Cohumachem	B. SIGNATU	RE	. // //	C.	DATE SIGNED
Robert A. Schumacher Senior Vice President	1	A-1	11	:	11/18/80
MMENTS FOR OFFICIAL USE ONLY	- 10 - 10 - 10 - 10 - 10	1	1-1-		
The state of the s	Part of the state				

8

9

3

III. PROCESSES (continued) The second of the second

;	一个工作,这种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种	***
---	---	-----

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "T04"). FOR EACH PROCESS ENTEREL HERE INCLUDE DESIGN CAPACITY.

V. DESCRIPTION OF HAZARDOUS WASTES

- EPA HAZARDOUS WASTE NUMBER Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
- ESTIMATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- UNITY OF MEASURE For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate wie are:

ENGLISH UNIT OF MEASURE CODE

METRIC UNIT OF MEASURE CODE METRIC TONS............

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

PROCESSES

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

OTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by ore than one EPA Hazardous Waste Number shall be described on the form as follows:

- 1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter 'included with above" and make no other entries on that line.
- Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

XAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds or year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes e corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 10 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

1	A. EPA HAZARD.				P FSTIMATED ANNUAL	C. UNIT			D. PROCESSES									
Ö	WASTENO		NO	QUANTITY OF WASTE		SURE (enter code)		1. PROCESS CODES (enter)									2. PROCESS DESCRIPTION (if a code is not entered in D(1))	
[-1	K		5	4	900	P	·	T	0 3	D	8	0	1	1	T	T	1	
-2	L	0	0	2	400	P		T	0 3	D	8	0	1	1	T	T	1	
(-3	L	0	0	1	100	P		T	0 3	D	8	0	1		\dagger	1	1	
4		0	0	2					Т		1		Т	1	T	1	1	included with above

A Form 3510-3 (6-80)

Continued from page 2. Form Approved OMB No. 158-S80004 VOTE: Photocopy this page before completing you have more than 26 wastes to list. FOR OFFICIAL USE ONLY EPA I.D. NUMBER (enter from page 1) DUP W DUP was the transfer of the second V DESCRIPTION OF HAZARDOUS WASTES (continued) C. UNIT OF MEA-SURE (enter code) D. PROCESSES A. EPA HAZARD. WASTENO B. ESTIMATED ANNUAL QUANTITY OF WASTE 1. PROCESS CODES (enter) 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) (enter code) P S 0 1 002 1500 U 2 P S 0 1 U 0 3 1500 3 2 1500 P S 0 1 UI 1 4 P 1117 1500 S 0 1 5 P U 1 5 9 1500 S 0 1 U 2 3 9 P S 0 1 1500 7 U 2 2 0 1500 P S 0 1 P F 0 0 1 1500 S 0 1 F 0 0 2 1500 P S 0 1 1500 P S 0 1 |F|0|0|3 1 1500 P F 0 0 4 S 0 1 P F 0 0 5 1500 S 0 1 13 14 15 16 7 18 19 20 21 22 23 24 43 26

Continued from the front.	•			
IV. DESCRIPTION OF HAZARDOUS WASTES	tinued)	Control of the Control	WAY TO	
E. L'TE THIS SPACE TO LIST ADDITIONAL PRO		OM ITEM D(1) ON PAGE	3.	and the contract of the contra
				7 1
				,
				-
			*1	
EPA I.D. NO. (enter from page 1)				
TWO DO O 2 2 E 1 C A 2 T/AC				
MOD0923516426				
V. FACILITY DRAWING	Samuel Control of the State of	Control of the Contro	Service Control	A STATE OF THE STA
All existing facilities must include in the space provided or	the first of the first	and a real reserve from the state of the section of the		the second and the second second second second second second
VI. PHOTOGRAPHS				
	- a substitution of the same of the same		in these a hand allered	has been stated and below to be a property of the property of the
All existing facilities must include photographs (ae treatment and disposal areas; and sites of future sto	<i>rial or ground—leve</i> orage_treatment_or	disposal areas (see instruct	existing struc	ctures; existing storage,
VII. FACILITY GEOGRAPHIC LOCATION				
LATITUDE (degrees, minutes, & second	18)	LONGITU	DE (degrees, m	inutes, & seconds)
3 7 5 8 4 8 N		1	b h ll al	
65 66 67 68 69 - 71		72	- 74 75 70	77 - 79
				A CONTRACT OF THE PARTY OF THE
A. If the facility owner is also the facility operator as	s listed in Section VIII	on Form 1, "General Informa	tion", place an	"X" in the box to the left and
skip to Section IX below.				
B. If the facility owner is not the facility operator as	listed in Section VIII	on Form 1 complete the following	owing items:	
	THE STATE OF THE S			
1. NAME OF FAC	ILITY'S LEGAL OWN	IER		2. PHONE NO. (area code & no.)
3				
5 16			55	56 - 58 59 - 61 62 - 61
3. STREET OR P.O. BOX		4. CITY OR TOWN	5.5	
7	c			
1 16 -	G 15 16		40 41	
		The Contract of the Contract o		
certify under penalty of law that I have personally				
documents, and that based on my inquiry of those	individuals immedi	ately responsible for obtain	ning the infor	mation I helieve that the
submitted information is true, accurate, and compl	ete. I am aware tha	t there are significant pena	ing the infor	itting false information
including the possibility of fine and imprisonment.		A A	1	
A. NAME (print or type)	B. SIGNATURE	-/-//-//		DATE SIGNED
(1 July 1 Green	\mathcal{A} V V	ا د.	DATE SIGNED
ROBERT A SCHUMACHER	1	401		11/18/80

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

X, OPERATOR CERTIFICATION

A. NAME (print or type)

B. SIGNATURE

C. DATE SIGNED